Milestone Report #5

Eastern Parry Channel
Ice Regime Program
Winter 1988/89 Analysis

4674

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Ice Regime Program
Winter 1988/89 Analysis

Presented to

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March 31, 1989

90-06533/

Eastern Parry Channel Ice Regime Program
Winter 1988/89 Analysis
Milestone Report #5
Mid-Winter SAR Imagery Data Collection

1.0 Introduction

Experience gained by Canarctic from season extending voyages of the M.V. Arctic into the eastern Parry Channel, in the early winter and early spring, has demonstrated that ice conditions are far more onerous than previously expected. The intrusion of high old ice concentrations into and across the entrance of Lancaster Sound in the November to early January period has proven to be a formidable barrier to navigation. In addition, heavily ridged first year ice and embedded old ice in the spring consolidated matrix of the eastern Parry Channel, during years of the complete consolidation of Lancaster Sound, greatly impeded icebreaker progress. Despite the obstacles to navigation these ice conditions pose, little is known concerning the variability of these conditions or the environmental processes responsible for their formation. In order for year-round navigation in the Canadian Arctic to be planned and executed, the environmental conditions in Lancaster Sound which have thus far impeded navigation must be more fully understood. It is the purpose of the Eastern Parry Channel Ice Regime Program to undertake the necessary background research to allow for the planning and execution of year-round navigation in this waterway.

2.0 Objective

Program Objective

Provide the necessary background research to allow for the planning and execution of year-round navigation in the eastern Parry Channel.

Winter 1988/90 Study Objective

To compare the ice conditions in November and December 1988 to March 1989 to identify the time period when old ice is a hinderance to navigation.

Milestone #5 Objective

The objective of milestone #5 was to collect a comprehensive set of SAR imagery of the study area in March of 1989.

3.0 Results

The Intera Technologies STAR-1 aircraft was deployed from south-east Asia to the Canadian high Arctic in mid-March to undertake the SAR data collection exercise. The aircraft arrived in Resolute Bay on March 15, 1989, and began coverage of the Lancaster Sound and Queen's Channel areas. Complete coverage of Barrow Strait and partial coverage of Prince Regent Inlet and Bent Horn missions were obtained on March 16 and 17 before an unfortunate failure in the radar electronics occurred. The aircraft returned to Calgary, Alberta, to effect repairs returning to Resolute Bay on March 23, 1989. Complete coverage of Viscount Melville Sound, Bent Horn, Eureka Sound, Barrow Strait and a repeat coverage of Lancaster Sound was obtained before a failure in the aircraft auto pilot occurred on March 26, 1989. The aircraft returned to Calgary for repairs. The aircraft was re-deployed to the high Arctic on April 2, 1989, and

completed the remaining SAR coverage of the eastern Parry Channel study area on April 7, 1989.

Despite the unfortunate equipment problems with the aircraft, all planned SAR missions (milestone #4) were collected including three repeat coverages of Lancaster Sound and two of Barrow Strait. A summary of the data collection exercise is found in Table 1 and a copy of the aircraft flight logs are included as Appendix A.

4.0 Conclusion

The collection of the mid-winter SAR data for the eastern Parry Channel Ice Regime Program has now been completed and the objective of Milestone #5 has been met.

Table 1

STAR-1 Deployment Summary
Mid-Winter SAR Data Collection

Date	Flight Coverage	Comment
March 14	-	Ferry from Inuvik.
March 15	Queens Channel 1-4 Lancaster 1-4 Sverdrup 1-2	
March 16	Barrow Strait 1-4 Lancaster 5 Prince Regent 1-4 Bent Horn 3-4	
March 17	-	Radar fails while flying Prince Regent coverage.
March 18	-	Plane returns to Calgary.
March 9-21	-	Plane in Calgary.
March 22	Beaufort accessibility coverage.	Plane returns from Calgary.
March 23	Nares Strait 1 and 6 Bent Horn 1,2,5,6	
March 24	Eureka Sound 1-3 Sverdrup Basin 5-8	
March 25	Beaufort accessibility coverage.	
March 26	Lancaster 1-4 Barrow 1-3	
March 27	-	Auto pilot fails, plane returns to Calgary.
March 28 - April 1	-	Plane in Calgary.
April 2	Barrow Strait 1-4	Plane returns to Resolute.
April 3	Nares Strait 1-6 Prince Regent 5-11	
April 4	Sverdrup 3-4	

April 5	Beaufort accessibility coverage.	
April 6	Beaufort accessibility coverage.	
April 7	Lancaster 1-4	Plane departs Resolute to Inuvik completed eastern Parry Channel coverage.

Appendix
STAR-1 Aircraft Flight Logs

FORM R-5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: X55-486
Project Name: CANARCTIC
Study Area: CAN: ARCTIC - CAMBRIDGE GULF
Pilot: V. MONTGOMERY
Operator: K. TENNANT
Downlink Location: N/A

Date (DD/MM/YY): 12/3/87
Mission/Flt. No.: 1/3
HDDT No.: HA5H1000

TX Incident Power: -3.9 dB
TX Reflected Power: _____ dB
TWT Meter: _____ Hrs.
RX Atten (dB): 30
Ground Conversion: ON
RTP Looks: 7

RTP Mode: NARROW
SWATH: Width: FULL
Sub: N/A
LUT: Intensity: 0
STC: 02

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV. Alt	RTP GAIN	COMMENTS
	C12	15:56	N 65°08	W 110°40	L		300	162	1	100	20	0.67	41.2	1	5.0 D Pres alt 310 True HD 310 Grnd 10
01	012	19:08	N 65°21.8	W 110°40	L		300	160	1	1700	20	0.65	41.5	1	MRK
02	C12	19:06	N 65°29	W 110°40	L		300	166	3	2700	20	0.66	27.1 -10.3	1	BAD TAPE CK TRK
03	012	19:09	N 65°37	W 110°40	L		300	165	3	3800	20	0.65	-10 277	1	PITCH
04	C12	19.17	N 65°59'	W 110°40	L		300	164	3	5800	20	0.65	-10 276	1	PM
05	C12	19:32	N 66°37	W 110°41'	L		300	168	4	7700	20	0.67	-10.5 276	1	200 AOS.
06	C12	19:37	66°54	110°41	L	360	300	166	4	6350	20	0.65	-1 276	1	" "
07	C12	19:53	67° 36	110°41	L		300	166	4	1450	20	0.65	-10 276	1	PM
	C12	20:01	N 68°00	W 110°42'	L	360	300	164	5	1020	20	0.72	-11 270	1	E.O.D
				DO	NOT		DO		C12						
				with	other		data								
				from	Keith										

LOG CERTIFIED BY: _____ (OPERATOR)

DATE: ___/___/___ (DD MM YY)

FORM R-5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R84-486 Date (DD/MM/YY): 13 103189 TX Incident Power: — dB

Project Name: CANMETEC Mission/Flt. No.: 2/4 TX Reflected Power: — dB RTP Mode: WIDE SWATH

Study Area: Campeche Gulf HDDT No.: ~~H0855~~ H1000 TWT Meter: — Hrs. SWATH: Width: Full

Pilot: Keyser / Morgan RX Atten (dB): 20 See Comments Sub: —

Operator: M. ERUKWRTH / Tennant Ground Conversion: ON LUT: Intensity: 0

Downlink Location: — RTP Looks: STC: 3

MARK	LINE	GMT TIME	POSITION		LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT		SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
			LAT.	LONG.					TRK	FOOTAGE					
1	CB	054	68 38	112 40	SW L		290		7	0700	20	0.35	0.2	1	START Ant Az 2
2		0107	69 02	114 85				176	7	5670					Position Mark
3		01:27	69 30	117:28				198	8	6200					Position Mark Ant Az 255
4	CB	31:40	69°45	119°10.				198		2400					END
1	C9	01:53	~~70°03~~	~~118°48~~	R	114	290	302	8	~~2400~~	20	0.60	0.65	1	Rx Atten 25 Ant Az START 105°
10		02:1017	69°30	115 15					9	3100					
16		0211	~~69 25~~	114:50					10	3480					Track Change
															Mission Aborted

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

PAGE ____ OF ____

OPERATOR'S COPY PROJECT MANAGER

FORM R-5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: X08-456 | Date (DD/MM/YY): 13/03/89 | TX Incident Power: -3.9 dB | RTP Mode: LAND
Project Name: CANADIAN ICE ARCS 89 | Mission/Flt. No.: 3/5 | TX Reflected Power: ____ dB | SWATH: Width: FULL
Study Area: CVD-AK-BEAUFORT SEA | HDDT No.: H1001 | TWT Meter: ____ Hrs. | Sub: —
Pilot: J MONTGOMERY | RX Atten (dB): 27 | LUT: Intensity: —
Operator: K DENNANE | Ground Conversion: ON | STC: ON
Downlink Location: NIA | RTP Looks: 7

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
	BS 1A	1712	N 68°35'N	W 138°29'	L/NW	062	310	237	1	200	20	0.47	-8 281.9	1	S.O.L
01	BS 1A	17:12	N 68°36°	W 138°20'	L		310	226	1	500	20	0.46	-7.6 283	1	S.O.D
02	BS 1A	17:20	68°51	137°01'	L		310	227	1	2900	20	0.46	-7.5 285	1	SLANT CHOP AN. PAT.
03	BS 1A	17:25	69°00'	136°12	L/NW		310	230	1	4427	20	0.47	-7.3 286	1	EDO ADJUST
04	BS 1A	17:40	69°35	132°59	L		310	227	2	7100	20	0.46	-7.5 289.7	1	PM 7600 ADJ
06	BS 1A	17:56	69°46	131°15	L		310	224	2	4650	20	0.46	-7.5 290	1	EDO ADJ
07	BS 1A	18:22	N 70°15	W 126°58'	L		310	229	3	3200	20	0.47	-7.8 292	1	E.O.D
				W 126° 12						4445					END COLLECTION
	BS 2A	18:36	N 70°37	127°04'	R	252	310	252	3	4700	20	0.52	-8.6 69	1	S.O.D
01	BS 2A	18:50	N 70°34	127°30	R		310	265	3	5622	20	0.52	-8.1 69.3	1	S.O.D OVERCAST OK
02	BS 2A	18:50	70°17'	129°29'	(R/NW)		310	273	4	9000	20	0.56	-8.3 69.3	1	Track change
03	BS 2A	18:59	N 70°01'	W 130°59	R/NW		310	262	4	6090	20	0.51	-8.3 72.1	1 1	CHOP
04	BS 2A	1920	69°05	136°00	R/NW		310	262	5	200	20	0.51	-8.3 71.6		PM
	BS 2A				R/NW		310		5		20			1	TAPE BAD 3600 AT 40 GOOD H21

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

QA ARCHIVE RIMV QA ARCHIVE - PROJECT MANAGER

FORM R 5
01/85

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-456 | Date (DD/MM/YY): 13/3/89 | TX Incident Power: _____ dB
Project Name: CANADIAN ICE ATLAS 1989 | Mission/Flt. No.: 3/5 | TX Reflected Power: _____ dB | RTP Mode: WIDE
Study Area: CWA ARC - BEAUFORT | HDDT No.: H0806 H1001 | TWT Meter: _____ Hrs. | SWATH: Width: FULL
Pilot: J. MONTGOMERY | RX Atten (dB): 27 | Sub: —
Operator: K. TOWNEND | Ground Conversion: 02 | LUT: Intensity: 0
Downlink Location: N/A | RTP Looks: 7 | STC: 03

MARK	LINE	GMT TIME	POSITION LAT	POSITION LONG	LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
	BS 2A				R/N.A		310		5		20			1	Begin data no marks
04	BS 2A	19:37	W 69°15'	136°57'	R		310	287	5	2600	20	0.53	92 78	1	Mic comp start
															IND LOST DATA
				137°49'											
						RESTART	LINE		AGAIN		AT	LOST	DATA		POINT
	BS 2A	20:00	69°18'	136°37'	R/NN		310	262	5	3900	20	0.54	85 72	1	
05	BS 2A	20:12	68°54'	135°50'	R/NN		310	265	5	7433	20	0.55	84 787	1	

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

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FORM R5
01/96

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R89
Project Name: CANARCTIC
Study Area: BEAUFORT SEA
Pilot: M. Keyser
Operator: M. FRUHWIRTH
Downlink Location: —

Date (DD/MM/YY): 14/03/89
Mission/Flt. No.: 4/6
HDDT No.: ~~H0356~~ H1001

TX Incident Power: ____ dB
TX Reflected Power: -3.85 dB
TWT Meter: / Hrs.
RX Atten (dB) 27
Ground Conversion ____
RTP Looks: ALL

RTP Mode WIDE SWATH
SWATH: Width ____
Sub: ____
LUT: Intensity ____
STC 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	8534	15:17	64 15	138 55	L	60	310	254	6	7750	20	0.53	8.2	1	Pos Mark 20Nmi,
1		15:30	69 32	136 40	(1)			254	6	4289					Rec stop Rest
									6	1650					Repro Stop.
10		15:46	70 08	133 43				250	7	590					TRACK Change
10	8539	15:55	70 23	132 00				247	7	3600					Position Mark
10		16:09	70 43	129 30				244	7	7590					Position Mark
2	8:34	16:19	70:57	127.30				235	8	7600					END
1	8:44	16:36	71 12	128 00	R	240	310	230	9	5100	20	0.48	8.2	1	START Point.
1		16:42	71 04	129 07	(1)					3200					Position Mark 6
~~10~~		16:48	~~130 14~~	130 09					8	1450					— " — 1 of 6
10		16:59	70 42	132 02				236	9	2000					— " — — " — 60
10		17:04	70 34	133 02				236	9	3550					— " — 67
10		17:21	70 07	136 00				230	9	8690		cl Pegged +2			— " — 70
10		17:33	69 45	138 03				235	10	5800					— " — 72

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

PAGE 1 of 2

FORM R5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: ___ _____ Date (DD/MM/YY): 14/03/89 TX Incident Power: _____ dB

Project Name: _____ Mission/Flt. No.: 4/6 TX Reflected Power: _____ dB RTP Mode _____

Study Area: Beaufort HDDT No.: ~~TEW 054~~ TWT Meter: _____ Hrs. SWATH: Width _____

Pilot: _____ H1001 RX Atten (dB) _____ Sub: _____

Operator: M. FRUHWIRTH Ground Conversion ON LUT: Intensity _____

Downlink Location: _____ RTP Looks: ALL STC _____

MARI	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
2	BS4	17.3;	69'3;	13847	R			238	10	4877	20			1	Pos Mark ~~END Point~~
2	BS4	17:44	89 25	139'55				136	10	2570					END Point
2	BS3	1758	69 05	139'46.					12	1850					Reflection BS3
			70'08	13343					13	920					Mid line

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

FORM RS
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1

Project Number: _____
Project Name: CANARCTIC ECE MAP
Study Area: Queens channel
Pilot: Jim Montgomery
Operator: MCFARLANE/WRTH
Downlink Location: /

Date (DD/MM/YY): 15/03/89
Mission/Flt. No.: 5/B
HDDT No.: HDDT 14002

TX Incident Power: _____ dB
TX Reflected Power: -3.9 dB
TWT Meter: _____ Hrs.
RX Atten (dB) 27
Ground Conversion ON
RTP Looks: ALL

RTP Mode WIDE SWATH
SWATH: Width Full
Sub: _____
LUT: Intensity 0
STC 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	Q1	17:55	76 39	95 40	270 R	180	300	270	1	0300	20	0.55	8.3	1	START
2		18:03	75 57	95 43				276		3090					Position Mark 93.1
3		18:15	75 00	95 45				272	1	6565					END 94.6
1	Q2	18:33	75 01	95 24	270 L	360	300	226	2	6730	20	0.46	8.3	1	START Point 20
2		18:39	75 30	95 09				226	2	5050					Position Mark 20
3		18:46	76 00	94 43				224		2400					—"— 27.8
4		19:56	76 31	94 10				236	3	370					—"— 269
5	Q2	18:58	76 40	94 10	L			/	3	1435					END
1	Q3	19:13	76 26	92 35	270 R	180	300	275	3	2860	20	0.56	7.8	1	START 92.5
2		11:18	76 00	92 45				274		4600					Position Mark
3		11:25	75 30	92 56				/		6620					—"— 94.4
4		11:31	75 03	93 05				232	3	8360					—END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE, PROJECT MANAGER

FORM R-5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R83-486 Date (DD/MM/YY): 15/03/89 TX Incident Power: _____ dB

Project Name: ZCE MAP Mission/Flt. No.: 4/6 TX Reflected Power: _____ dB RTP Mode _____

Study Area: Queens Ch. / Sverdrup HDDT No.: ~~H0057~~ H1002 TWT Meter: _____ Hrs. SWATH: Width _____

Pilot: _____ RX Atten (dB) _____ Sub: _____

Operator: M. FRUHWIRTH Ground Conversion _____ LUT: Intensity _____

Downlink Location: _____ RTP Looks: _____ STC _____

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	Q4	1950	75 02	94 30	090° R	360	300	224	4	8360	20	0.4	75	1	START Anch. Sta.
2		1959	75 33	94 19				229		5850					Position Mark
3		2008	76 00	94 08				228		3240					—"— 87
4		20	76 28	94 00				230	4	1520					END
1	S1	20:40	76 ~~37~~	9:09	090° R	348	300	251	5	220	20	0.51	78	1	START
2		2044	77 32	90 42					5	3600					Position Mark
3		2056	78 00	9109				242		5660					—"— 86
4	S1	2103	78 22	9138				240	5	7640					END
1	S2	2114	78 ~~17~~	93 08	090° L	165	300	268	6	~~9800~~	20			1	START Anch. 274
2		2124	77 30	92 14						~~9800~~ 5458					Position 1-way 27
3		2138	76 30	9113					6	~~5458~~ 1330					—"— 27
4		2146	7 ~~5~~ 59	9044					7	~~1330~~ 1270					—"— 275
5		2150	7 ~~5~~ 22	90					7	4100					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE / PROJECT MANAGER

FORM R-5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: RSS-486
Project Name: ICE MAP 89
Study Area: Qis. ens Channel
Pilot: _____
Operator: _____
Downlink Location: _____

Date (DD/MM/YY): 15/4/89
Mission/Flt. No.: 5/6
HDDT No.: A0057 H1002

TX Incident Power: _____ dB
TX Reflected Power: _____ dB
TWT Meter: _____ Hrs.
RX Atten (dB) 27
Ground Conversion ON
RTP Looks: all

RTP Mode _____
SWATH: Width _____
Sub: _____
LUT: Intensity _____
STC _____

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	Q4a	2214	75°00	94°30	090 R	360	300	239	8	8600	20	0.49	75	1	START
2		2224	7520	—					8	5500					

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

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YELLOW — QA ARCHIVE PINK — QA ARCHIVE, PROJECT MANAGER

FORM R-5
01/88

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486 Date (DD/MM/YY): 16/03/89 TX Incident Power: -3.8 dB

Project Name: ICE MAP 89 Mission/Flt. No.: 6/9 TX Reflected Power: ____ dB RTP Mode WIDE

Study Area: LANCASTER SOUND HDDT No.: ~~H 0858~~ TWT Meter: ____ Hrs. SWATH: Width FULL

Pilot: M. KEYSER RX Atten (dB) 27 Sub: ____

Operator: BRUNO PETERS/MAT ERUHWIRTH 6/ /03/3 Ground Conversion ____ LUT: Intensity 0

Downlink Location: ____ RTP Looks: ALL STC 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R) SOUTH	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	L2	1:59	74:22	88:16	R	086	310	228	1	2190	20	0.48	-7.1	1	START LINE
2	L2	2:02	74:23	87:30	R		310	233	1	3540	"	"			POSITION MARK 93.1
3	L2	2:10	74:24	85:30	R		310	233	1	5650	"	"			POSITION MARK 93.1
4	L2	2:19	74:24	83:30	R		310	227	1	8200	"	"			POSTN MARK. 94.2
5	L2	2:27	74:23	81:30			310	227	2	7700	"	"			POSTN MARK. 94.2
6	L2	2:36	74:21	79:30			310	230	2	5100	"	"			POSTN MARK. 94.3
7	L2	2:44	74:18	77:30			310	229	2	2570					POSTN MARK 94.8
8	L2	2:55	74:13	75:00			310	234	3	950					END LINE 92.1
1	L4	3:04	74:03	75:00	R		310	260	3	2540	20	.54	-7.2	1	ABORT START 88.4
1	L3	3:26	73:47	75:06	NORTH R	278	310	270.3	3	5060	20	.55	-4.0	1	START 87.8
2	L3	3:33	73:51	77:06	R		310	270	3	7300					POSTN MARK 87.6
3	L3	3:41	73:54	79:00	R		310	274	4	8990					POSTN MARK 87.3
4	L3	3:48	73:57	81:00	R		310	281	4	6880					POSTN MARK 87.8

LOG CERTIFIED BY: ____ (OPERATOR) DATE: __/__/__ (DD MM YY) PAGE

OW — OA ARCHIVE PINK — OA ARCHIVE · PROJECT MANAGER

FORM R-5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-48 | Date (DD/MM/YY): 16/03/89 | TX Incident Power: -3.8 dB | RTP Mode: WIDE

Project Name: ICE MAP 89 | Mission/Flt. No.: 6/9 | TX Reflected Power: ____ dB | SWATH: Width: FULL

Study Area: LANCASTER SOUND | HDDT No.: ~~HD858~~ F1003 | TWT Meter: ____ Hrs. | Sub: -

Pilot: M. KEYSER | RX Atten (dB): 27. | LUT: Intensity: 0

Operator: BRUNO PETERS / MAT FRUHWIRTH | Ground Conversion: ____ | STC: 3

Downlink Location: ____ | RTP Looks: ALL

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
5	L3	3:57	73:58 N	83:33 W	R	278	310	278	4	4150	20	.58	-6.0	1	POST'N MARK 88
6	L3	4:04	73:58	85:30	R		310	278	4	2100		.58	-6.1		POST'N MARK 87
7	L3	4:08	73:58	86:40			310	272	4	830		.57	-6.1		POST'N MARK 87
8	L3	4:15	73:56	88:30				277	5	1525		.58	-6.1		END 87.
1	L4	4:25	74:12	88:30	L	086	310	235	5	1970	20	.49	-6.2	1	START 274
2	L4	4:33	74:14	86:30	L		310	246	5	4340		"	"		POST'N MARK 274
3	L4	4:41	74:14	84:30	L			243	5	6750		"	"		POST'N MARK 27
4	L4	4:49	74:14	82:30	L			245	6	9130		"	"		POST'N MARK 27
5	L4	4:58	74:12	80:30				239	6	6580		"	"		POST'N MARK 2
6	L4	5:05	74:10	78:30				240.9	6	4250		.49	-6.2		POST'N MARK 27
7	L4	5:13	74:06	76:30				250	6	1800		.51	-6.2		POST'N MARK 27
8	L4	5:20	74:03	75:00				248	7	0400		.51	-6.4		END 245.

LOG CERTIFIED BY: ____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW - QA ARCHIVE PINK - QA ARCHIVE PROJECT MANAGER

FORM R-5
01/86

C'ANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486 | Date (DD/MM/YY): 16/03/89 | TX Incident Power: -3.8 dB | RTP Mode: WIDE
Project Name: ICE-MAP 89 | Mission/Flt. No.: 6/9 | TX Reflected Power: ____ dB | SWATH: Width: FULL
Study Area: LANCASTER SOUND | HDDT No.: H0858 4/1003 | TWT Meter: ____ Hrs. | Sub: —
Pilot: M. KEYSER | RX Atten (dB): 27 | LUT: Intensity: 0
Operator: B. PETERS / MAT FRUHWIRTH | Ground Conversion: ____ | STC: 3
Downlink Location: — | RTP Looks: ALL

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	L1	5:36	73:58 N	75:40 W	L	277	310	280	7	3950	20	0.58	-6.0	1	START Azi
2	L1	5:46	74:03	78:15	L			284	7	6730	"	.58	-6.0	1	POST'N MARK 267
3	L1	5:50	74:05	79:40	L			287	7	8190	"	.60	-6.2	1	POST'N MARK 269
4	L1	5:57	74:07	81:40	"			288	8	9080	"	.59	-6.4	1	POST'N MARK 269
5	L1	6:04	74:07	83:40	"			290	8	7020	"	.60	-6.2	1	POST'N MARK 269
6	L1	6:11	74:07	85:40	"			278	8	4920	"	.57	-6.1	1	POST'N MARK 267
7	L1	6:21	74:05	88:30	"			283	8	1950	"	.58	-5.8	1	END LINE 267
1	G2	6:49	75:04 N	94:25 W	L	003	310	246	8	1260	20	.51	-6.0	1	START 268
2	G2	6:56	75:30 N	94:19	L	003	310	245	9	3200	"	.50	-6.2	1	POST'N MARK 269
3	G2	7:04	76:05 N	94:10	L	003	310	247	9	5780	"	.51	-6.4	1	POS'N MARK 269
4	G2	7:12	76:40	94:00	L	003	310	247	9	8330	"	.51	-6.7	1	END 269

LOG CERTIFIED BY: ____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE, PROJECT MANAGER

FORM 1-5 01/87

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1

Project Number: R88-486
Project Name: ICE MAP 89
Study Area: LANCASTER/BARROW ~~STRAIGHT~~
Pilot: JANE MONTGOMERY
Operator: B. PETERS/MAT FRUHWIRTH.
Downlink Location: —

Date (DD/MM/YY): 16/03/89
Mission/Flt. No.: 7/10
HDDT No.: ~~H0054~~ H1004

TX Incident Power: — dB
TX Reflected Power: — dB
TWT Meter: — Hrs.
RX Atten (dB): 27
Ground Conversion: —
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL.
Sub: —
LUT: Intensity: 03
STC: 30

MARK	LINE	GMT TIME	POSITION LAT. °	POSITION LONG. °	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	AZ
1	B1	20:14	74?4	98:00	SOUTH R	089	290	250	1	1450	.20	.51	-8.0	1	START LINE	74
2	B1	20:22	74:25	96:00	R	089	290	249	1	3790	20	.51	-8.0	1	POS'N MARK	9:
3	B1	20:29	74:24	94:00	R	089	290	255	1	6100	20	.53	-8.4	1	POS'N MARK	9:
4	B1	20:37	74:23	92:00	R	089	290	253	1	8400	20	.52	-8.1	1	POS'N MARK	9:
5	B1	20:45	74:20	90:00	R	089	290	251	2	7620	20	.51	-8.1	1	POS'N MARK	9
6	B1	20:53	74:16	88:00	R	089	290	254	2	5230	20	.52	-8.0	1	POS'N MARK	95
7	B1	21:01	74:12	86:00	R	089	290	254	2	2900	20	.52	-7.9	1	POS'N MARK	95
8	B1	21:07	74:06	84:~~30~~	R	089	290	254	2	900	20	.53	-8.0	1	POS'N MARK	95:
9	B1	21:13	74:02	83:00	R	089	290	247	3	1000	20	.51	-8.0	1	END LINE	96
1	L5	21:30	74:10	84:20	L	220	290	291	3	2510	20	.60	-6.4	1	START LINE	270
2	L5	21:37	73:45	85:40	L	220	290	292	3	4570	20	.61	-6.8	1	POS'N MARK	272
3	L5	21:40	73:32	86:20	L	220	290	300	3	5630	20	.62	-6.4	1	POS'N MARK	272
4	L5	21:44	73:18	~~87~~:00	L	220	290	293	3	6727	20	.61	-7.0	1	END	271

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

FORM R5
01/04

STAR 1 RADAR / DATA TAPE LOG

STAR 1

Project Number: (ANARCTIC. R88-486 | Date (DD/MM/YY): 16/03/89 | TX Incident Power: — dB
Project Name: ICE MAP 89 | Mission/Flt. No.: 7/10 | TX Reflected Power: ____ dB | RTP Mode: WIDE
Study Area: BARROW-STRANGAT | HDDT No.: ~~H0859~~ H1004 | TWT Meter: ____ Hrs. | SWATH: Width: FULL.
Pilot: JUNE MONTGOMERY | RX Atten (dB): 27 | Sub: —
Operator: B. PETERS/MAT FRUHWIRTH | Ground Conversion: ____ | LUT: Intensity: 07
Downlink Location: ____ | RTP Looks: ALL | STC: 30

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	B2	22:18	74:15	82:45	L SOUTH	284	290	280	3	7800	20	.58	-7	1	START LINE Az 2(
				84:00	L		290				20			1	POS'N MARK
															TAPE BREAK DOWN
1	B2	22:44	74:15	82:45	L	284	290	278	4	8430	20	.57	-5.9	1	START 26(
2	B2	22:52	74:23	84:~~00~~	L	284	290	279	4	6160	20	.58	-6.3	1	POS'N MARK 26(
3	B2	22:56	74:27	86:00	L	284	290	279	4	4920	20	.57	-5.7	1	POS'N MARK 265.
4	B2	23:03	74:33	88:00	L	284	290	286	4	2850	20	.59	-5.7	1	POS'N MARK 265.
5	B2	23:10	74:38	90:00	L	284	290	293	4	820	20	.60	-6.2	1	POS'N MARK 266
6	B2	23:16	74:41	92:00	L	284	290	295	5	1450	20	.61	-6.4	1	POS'N MARK 266
7	B2	23:23	74:44	94:00	L	284	290	292	5	3380	20	.60	-6.2	1	POS'N MARK 267.
8	B2	23:29	74:45	96:00	L	284	290	289	5	5360	20	.60	-5.~~2~~	1	POS'N MARK 268.
9	B2	23:36	74:~~48~~	98:00	L	284	290	286	5	7300	20	.59	-5.7	1	END 267.
1	B3	23:46	75:00	98:00	R	088	290	254	5	8830	20	.52	-6.4	1	START 94.1
2	B3	23:53	75:01	96:00	R	088	290	261	6	7350	20	.54	-6.8	1	POS'N MARK 93.(

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

Project Number: Rno-486 | Date (DD/MM/YY): 16 JUL 86 | TX Incident Power: ____ dB | RTP Mode: WIDE
Project Name: REMAP-89 | Mission/Flt. No.: 710 | TX Reflected Power: ____ dB | SWATH: Width: FULL
Study Area: BARROW STRAIT | HDDT No.: ~~H0059~~ H1004 | TWT Meter: ____ Hrs. | Sub: -
Pilot: JUNE MONTGOMERY | RX Atten (dB): 27 | LUT: Intensity: 03
Operator: B. PETERS / MAT FRUHWIRTH | Ground Conversion: ____ | STC: 20
Downlink Location: ____ | RTP Looks: ALL

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	AZM
3	B3	00:00	75:00	94:00	R	088	290	264	6	5170	20	.54	-7.2	1	POS'N MARK	95.
4	B3	00:07	74:59	92:00	R	088	290	260	6	3040	20	.54	-7.2	1	POS'N MARK.	96.
5	B3	00:14	74:56	90:00	R	088	290	259	6	890.	20	.53	-6.6	1	POS'N MARK.	95.
6	B3	00:22	74:52	88:00	R	088	290	259	7	1620	20	.53	-6.7	1	POS'N MARK	94.
7	B3	00:30	74:47	85:50	R	088	290	260	7	4150	20	.53	-7.1	1	POS'N MARK	96.
8	B3	00:36	74:42	84:00	R	088	290	258	7	6000	20	.53	-6.7	1	POS'N MARK	94.
9	B3	00:42	74:37	82:35	R	088	290	257	7	7600	20	.53	-6.5	1	END	94.

LOG CERTIFIED BY: ____ OPERATOR DATE: ____ / ____ / ____ DD MM YY

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YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

FORM R-5
01/88

DO NOT [illegible]

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: 255-756
Project Name: CANADIAN ICEBERG 89
Study Area: LAB. AREA - PRINCE REGENT
Pilot: M KAISER
Operator: K [illegible]
Downlink Location: N/A

Date (DD/MM/YY): 13/3/89
Mission/Flt. No.: [illegible] 8/11
HDDT No.: [illegible] 11004 / 17

TX Incident Power: -3.7 dBm dB
TX Reflected Power: -14.2 dB
TWT Meter: _____ Hrs.
RX Atten (dB): 27
Ground Conversion: ON
RTP Looks: 7

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 0
STC: 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
	PR 1A	03:01	74° 11	90°23	L	TRUE 206	310	263	8	9000	20	0.53	-7.7 271.4	1	S.O.L
01	PR 1A	03:03	N 74°09	W 90°35	L	"	310	265	8	8560	20	0.55	-7.3 270.7	1	S.O.D
02	PR 1A	03:06	N 73°53	W 90°55'	L	"	310	275	8	7796	20	0.56	-6.2 271	1	PITCH BAND!
03	PR 1A	03:25	N 72°55	W 93°00'	L	"	310	276	8	2150	20	0.56	-6.5 270.6	1	PM
04:	PR 1A	03:40	N 71°30'	W 94°30'	L	"	310	266	9	2500	20	0.55	-6.3 270.6	1	E.O.D
	PR 2A	03:52'	N 71°16	W 93°40	L	025 TRUE	310	227	9	4200	20	0.47	-6.8 270.2	1	S.O.L
01	PR 2A	3:56	N 71°32'	W 93°20'	L	"	310	225	9	5540	20	0.46	-6.7 270.7	1	S.O.D
02	PR 2A	04:12	N 72°25	W 91°58'	L	"	310	232	10	7900	20	0.48	-9.5 270.2	1	PM
03	PR 2A	04:23	N 72°55	W 91°07	L	"	310	231	10	5380	20	0.48	-10 269	1	E.O.D.
														1	
04	PR 3A	04:25	73°48	7°04	R	210 TRUE	310		10	4900	20	0.55	-9.4 91.4	1	S.O.L
01	PR 3A	04:29	73°46	87°18	R	210	310	270.5	10	4600	20	0.55	-9.5 91.6	1	S.O.D
02	PR 3A	05:03	72°43'	87°00'	R		310	275	10	540	20	0.57	-8.3 91.5	1	

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

PAGE 1 of 2

YELLOW - QA ARCHIVE PINK - QA ARCHIVE PROJECT MANAGER

FORM R5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: 656-456 Date (DD/MM/YY): 12/03/89 TX Incident Power: -3.7 dB

Project Name: [illegible] ICE ARMS 89 Mission/Flt. No.: [illegible] 8/11 TX Reflected Power: ____ dB RTP Mode WIDE

Study Area: CAN-ALK-PRINCE RUPERT TWT Meter: ____ Hrs. SWATH: Width FULL

Pilot: [illegible] HDDT No.: [illegible] 11004 RX Atten (dB) 27 Sub: —

Operator: K TOWNSEND Ground Conversion 02 LUT: Intensity 08

Downlink Location: N/A RTP Looks: 2 STC 83

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
03	PR 3A	05:13	N 72 04	W 90°12	R		310	263	11	2800	20	0.58	-8.3 90.8	1	PM 70 34 72 34
04	PR 3A	05:34	N 70°34	W 92°30	R		310	292	11	9070	20	0.60	-9.6 89.5	1	E.O.D
		05:38	70°23	92°45					12	8540					E.O.L
	PR 4A	05:44	70:10	92 02	L	024	310	232	12	8450	20	0.48	-8.3 270.7	1	S.O.L
01	PR 4A	05:47	N 70°18'	W 91°50	L		310	234	12	7650	20	0.48	-8.3 274.4	1	S.O.D 7230 8510
02	PR 4A	06:04	N 71°20	W 90°15	L		310	241	12	2400	20	0.50	-8 270.8	1	PM
03	PR 4A	06:24	N 72°30'	W 88° 10'	L		310	244	13	4070	20	0.50	-8.2 270.4	1	E.O.D
	B4A	06:56	N 74°29	W 91°04	R	278T	310	274	13	4400	20	0.56	-7.6 85.9	1	S.O.L
01	B4A	06:57	N 74°30	W 91°22'	R	278	310	275	13	4700	20	0.56	-8.3 85.6	1	S.O.D 74 30 92 00
02	B4A	07:00	N 74°33	W 93 50	R		310	279	13	7250	20	0.58	-8.1 84.8	1	SLT CHOP
03	B4A	07:20	N 74 36	W 95 00	R		310	278	14	6700	20	0.56	-8.1 85.2	1	

LOG CERTIFIED BY: _____ _____ OPERATOR DATE: ___/___/___ DD MM YY

FORM R5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R86-486 | Date (DD/MM/YY): 17/03/89 | TX Incident Power: _____ dB

Project Name: CANADIAN ICE ARMS 1989 | Mission/Flt. No.: ~~RF3~~ 9/12 | TX Reflected Power: _____ dB | RTP Mode WIDE

Study Area: CAN. ARC. - BAFFIN ISLAND | HDDT No.: ~~M0560~~ | TWT Meter: _____ Hrs. | SWATH: Width FULL

Pilot: M. KEUSER | 11/005 | RX Atten (dB) 27 | Sub: —

Operator: K. FERRANT | Ground Conversion dB | LUT: Intensity 0

Downlink Location: N/A | RTP Looks: 2 | STC 03

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
	BH 3A	09:10	74°45'	98°37	L	341	310	236	1	200	20	0.48	-6 265.4	1	S.O.L
01	BH 3A	9:12	N 74°56'	W 98°50'	L		310	245	1	1000	20	0.50	-6.6 265.7	1	S.O.D 79 33 107 55
02	BH 3A	09:41	N 76°45	101°35	L		310	245	2	8550	20	0.50	-7 266.7	1	PM ~~might be too low out?~~ ANT PAT
03	BH 3A	10:01	N 78°00	W 104°00	L		310	246	2	2470	20	0.51	-7.3 265	1	PM
04	BH 3A	10:27	N 79°33	W 107°55	L		310	247	3	5240	20	0.50	-7.0 265.7	1	
	BH 4A	10:35	N 79°29	W 109°40	R	151	310	247	3	5500	20	0.55	-6.8 96.9	1	S.O.L
01	BH 4A	10:36	N 79°23	W 109°25	R		310	269	3	5500	20	0.55	-6.6 96.5	1	S.O.D 74 52 100 05
02	BH 4A	10:50	N 78°31	W 107°00	R		310	268	4	8260	20	0.55	-6.7 96.4	1	PM ANT PAT
03	BH 4A	11:04	N 77°35'	W 104°50'	R		310	267	4	4100	20	0.55	-6.4 96.3	1	PM
04	BH 4A	11:50	N 76°37	W 102°55	R		310	276	5	300	20	0.57	-6.3 95.4	1	PM
05	BH 4A	11:	N 74°52'	W 100°05'	R		310	252	5	7420	20	0.58	-6.4 95.6	1	E.O.D
		11:45	74 42	99 50					5	8300					

LOG CERTIFIED BY: _____ _____ OPERATOR | DATE: ___/___/___ DD MM YY

FORM R5
01/88

CANARC/IC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE-MAP 1989
Study Area: PRINCE REGENT
Pilot: SUNE MONTGOMERY
Operator: B. PETERS.
Downlink Location: —

Date (DD/MM/YY): 17/03/89
Mission/Flt. No.: 10/13
HDDT No.: H0360
41005

TX Incident Power: — dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB) 27
Ground Conversion ____
RTP Looks: ALL.

RTP Mode WIDE
SWATH: Width FULL.
Sub: — .
LUT: Intensity 3
STC 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	PR7	15:30	71:58	89:35	R	164	290	275	6	8240	20	.57	-7.5	1	START 92.
2	PR7	15:36	71:32	89:12	R	164	290	276	6	6420	20	.57	-7.6	1	POS'N MARK 93.
3	PR7	15:43	71:00	89:45	R	164	290	276	6	4260	20	.57	-7.5	1	POS'N MARK 94.
4	PR7	15:50	70:30	88:20	R	164	290	277	6	2120	20	.57	-7.8	1	POS'N MARK 94.
5	PR7	15:59	69:50	87:51	R	164	290	276	6	670	20	.57	-7.7	1	POS'N MARK 94.
6	PR7	16:06	69:20	87:29	R	164	290	277	7	2790	20	.57	-7.6	1	POS'N MARK 92.
7	PR7	16:21	68:10	86:45	R	164	290	278	7	7330	20	.57	-7.4	1	END 92.
1	PR6	16:	69:03	88:10	L	345	290		8	8620	20		-7.2	1	START
2	PR6	1644	69:22	88:24	L	345	290	250	8	7150	20	.51	-7.2	1	RCVR ATTN SET TO 17 RE INITIALIZED 2
3	PR6	16:53	70:00	88:56	L	345	290	254	8	4280	20	.52	-7.1	1	POS'N MARK 26
4	PR6	17:00	70:30	89:21	L	345	290	254	8	2140	20	.52	-7.1	1	POS'N MARK 26
5	PR6	17:08	71:00	89:48	L	345	290	254	9	300	20	.52	-7.1	1	POS'N MARK 268.
6	PR6	17:17	71:33	90:20	L	345	290	257	9	2750	20	.53	-7.1	1	END 267.

LOG CERTIFIED BY: _____ _____ DATE: ___/___/___
OPERATOR DD MM YY

PAGE / of

YELLOW — OA ARCHIVE PINK — OA ARCHIVE · PROJECT MANAGER

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486 | Date (DD/MM/YY): 17/03/89 | TX Incident Power: — dB

Project Name: ICE-MAP 8 | Mission/Flt. No.: 10/13 | TX Reflected Power: ____ dB | RTP Mode: WIDE

Study Area: PRINCE REGENT | HDDT No.: ~~#0860~~ H100 5 | TWT Meter: ____ Hrs. | SWATH: Width: FULL

Pilot: JUNE MONTGOMERY | RX Atten (dB): ____ | Sub: —

Operator: B PETERS | Ground Conversion: ____ | LUT: Intensity: 3

Downlink Location: — | RTP Looks: ALL | STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	ATTN RTP ~~STC~~ SETTING	COMMENTS	ANT'S AZMTH
1	PR5	17:25	71 07	90 50	R	163	290	279	9	3100	20	.57	-7.6	*	START	92.1
2	PR5	17:33	70:30	90:16	R	163	290	282	9	5600	20	.58	-7.6	*	POSN MARK	92.2
3	PR5	17:40	70:00	89:51	R	163	290	283	9	7600	20	.58	-7.8	*	POS'N MARK	93.1
4	PR5	17:48	69:22	89:20	R	163	290	289	11	8060	20	.59	-7.2	7	POS'N MARK	92.8
5	PR5	18:00	68:27	88:40	R	163	290	291	10	4600	20	.60		21	END	
1	PR11	18:38	70:25	85:50	R	105	290	264	10	3460	20	.54	-8.1	20	START	94.
2	PR11	18:	70:07	22:52					10	-				27		
3	PR11	19:07	69:46	80:02	R	105		260	11	5260		.54	-7.9	27	END	

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

FORM RS
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1

Project Number: CANARCTIC R88-486
Project Name: ICE-MAP 89
Study Area: PRINCE REGENT
Pilot: JUNE MONTGOMERY
Operator: TS. PETERS
Downlink Location: —

Date (DD/MM/YY): 17/03/89
Mission/Flt. No.: ~~#173~~ 1/4
HDDT No.: H0860 / H1005

TX Incident Power: — dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB) ____
Ground Conversion ____
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RCVR ATTN	COMMENTS	ANT AZIM X
1	PR10	21:33	68.40	84:38	West L	348	290	239	11	8800	20	.48	-6.7	17	START LINE	27.8
2	PR10	21:02	70:36	85:44	L	348	290	247	12	823	20	.51	-7.4	27	~~POS'N MARK~~ END	26
												3				
1	PR9	22:10	70:30	86:30	West R	167	290	273	13	540	20	.56	-8.2	27	START	93.
2	PR9	22:40	68:17	85:05	R	167	290	275	14	9710	20	.57	-7.9	27	END	92.
1	PR8	23:03	68:15	85:55	West L	347	290	253	1	2180	20	.52	-7.0	27	START	268.
2	PR8	23:23	69:33	86:45	L	347	290	258	1	7930	20	.53	-6.7	27	POS'N MARK	268.
			~~70:48~~	~~MARKED~~												
3	PR8	23:29	70:00	87:04	L	347	290	263	2	8280	20	.54	-6.6	27	POS'N MK.	268.
4	PR8	23:34	70:22	87:20	L	347	290	260	2	0660	20	.54	-6.9	27	POS'N MARK	268.
5	PR8	23:4	70:47	87:40	L	347	290	257	2	4830	20	.53	-6.8	27	END	267

LOG CERTIFIED BY: ____ DATE: __/__/__ (DD / MM / YY)

CANARCTIC

FORM R 5
01/86

STAR 1 RADAR / DATA TAPE LOG

Project Number: R88 486
Project Name: ICE ATLAS 89
Study Area: Coronation Gulf
Pilot: M. Keyser.
Operator: M. FRUHWIRTH / K Tennant
Downlink Location:

Date (DD/MM/YY): 22/03/89
Mission/Flt. No.: 13/14
HDDT No.: ~~H1056~~ H1056

TX Incident Power: ____ dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
~~BX Atten~~ (dB) RTP GAIN 1
Ground Conversion ON
RTP Looks: ALL

RTP Mode WIDE SWATH
SWATH: Width /
Sub: /
LUT: Intensity 0
STC 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT ELEV.	Rx ~~GAIN~~ Attn	COMMENTS
1	C1	9:05	65°00	104°30	R	225	310	236	3	1200	20	0.49	7.5	25	START
2		9:46	70 31	100°54	E				4	5000			7.5		Position
3		9:55	71 07	~~100°25~~					4	3000					~~Position~~ END
~~1~~	C2				L	226	310	252	4	1770	20	0.57	7.5	25	START
1		10:08	70 28	99 56	L				5	100					Position
2		10:32	69°00	102°15	E				5	7300					—11—
3		10:40	68°30	102°56		226		262	6	8600					—11—
4		10:49	67 55	103:4				260	6	600					END
	C3	10:57	N 67°46'	W 103°13'	R	264	310	241	6	4650	20	0.5	~~-7.7~~ -8 105.9	25	SOC
1		11:01	68°00	102°53	E				6	3560		0.51	-8 104.2	25	FM AO 3.5 TO 3.0
2	C3	11:13	68°46'		R			265	7	295	20	0.54	-9 104.4	25	FM
3		11:42	70° 37	95° 26				265	7	9000		0.54	-8 95.6		
	M1	2.							8	8900					

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

PAGE 1 of 1

FORM R5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486 | Date (DD/MM/YY): 22/03/88 | TX Incident Power: -4.0 dB | RTP Mode: WIDE
Project Name: ICE-MAP 89 | Mission/Flt. No.: 14/20 | TX Reflected Power: ____ dB | SWATH: Width: FULL
Study Area: Viscount Melville Sound | HDDT No.: ~~#0361~~ 111006 | TWT Meter: ____ Hrs. | Sub: —
Pilot: JUNE MONTGOMERY | RX Atten (dB): 25 | LUT: Intensity: 3
Operator: BRUNO PETERS | Ground Conversion: ____ | STC: 0
Downlink Location: ____ | RTP Looks: ALL

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZM.
1	V1		7348	9500	~~SOUTH~~ L	275	290		8	~~8~~ 800				1	(NO MARK HERE) START LINE	
2	V1	17:37	7356	9740		275		267	8	4480	20	.55	-7.4		POS'N MARK	272.
3	V1	17:43	7358	9915				264	8	2730		.54	-7.5	1	POS'N MARK	272.5
4	V1	17:46	73:58	100:00				269	8	1780		.55	-7.6		POS'N MARK	272.2
5	V1	17:52	73:58	101:45				265	9	450		.55	-7.5		POS'N MARK	272.5
6	V1	18:00	73:57	103:50				268	9	2900		.55	-7.6		POS'N MARK	271.8
7	V1	18:13	73:53	107:20				~~2~~63	9	6830		.54	-7.5		POS'N MARK	272.0
8	V1	18:21	73:49	109:20				267	9	9090		.55	-7.5		POS'N MARK	271.9
9	V1	18:28	73:45	111:10				264	10	7200		.54	-7.6		POS'N MARK	271.4
10	V1	18:35	73:39	112:50				~~2~~59	10	5240		.53	-7.5		POS'N MARK	270.0
11	V1	18:42	73:32	114:50	L	275	290	264	10	2840	20	.54	-7.6	1	END	270.9
1	V2	18:58	~~73:52~~ 73:52	116:00	~~SOUTH~~ R	77	290	268	11	900	20	.55	-7.6	1	START	91.4
2	V2	19:05	73:59	114:00				272	11	3080		.56	-7.6	1	POS'N MARK	91.3
3	V2	19:13	74:05	112:00				273	11	5515		.56	~~7.5~~		POS'N MARK	90.4

LOG CERTIFIED BY: ____ (OPERATOR) DATE: ____/____/____ (DD MM YY)

FORM R5
01/86

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1

Project Number: R88-486
Project Name: ICE MAP-87
Study Area: Viscount Melville Sound
Pilot: JUNE MONTGOMERY
Operator: BRUNO PETERS
Downlink Location: —

Date (DD/MM/YY): 22/03/87
Mission/Flt. No.: 14/20
HDDT No.: ~~H1006~~ H1007 / ~~H1002~~ H1006

TX Incident Power: -4.0 dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB): 25
Ground Conversion: ____
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV	RTP GAIN	COMMENTS	ANT AZM ±
4	V2	19:21	74:10	109:40	R	77	290	273	11	7860	20	.56	-7.3	1	POS'N MARK	81.1
5	V2	19:29	74:14	107:30				276	12	8130		.57	-7.1		POS'N MARK	88.4
6	V2	19:38	74:16	105:00				269	12	5430		.55	-7.1		POS'N MARK	59.1
7	V2	19:51	74:17	101:29				264	12	1490		.54	-6.8		POS'N MARK	87.6
8	V2	20:01	74:15	99:00				262	13	1620		.54	-6.8		POS'N MARK	87.7
9	V2	20:08	74:12	97:00				265	13	3870		.55	-7.0		POS'N MARK	88.5
10	V2	20:16	74:08	94:45				265	13	6430		.55	-7.1		END	89.5
							LAND			FLIGHT	15/21					
1	V3	23:20	74:29	94:40	SOUTH L	277	290	271	1	2000	20	.56	-7.1	1	START LINE	272.6
2	V3	2333	74:34	98:30				267	1	6060		.55	-7.1		POS'N MARK.	272.8
3	V3	23:44	74:35	101:30				267	2	7140		.55	-6.8		POS'N MARK	272.2
4	V3	23:53	74:34	104:00				267	2	6390		.55	-6.7		POS'N MARK	272.1
5	V3	00:04	74:31	107:00				265	2	3130		.55	-7.0		POS'N MARK	272.5
6	V3	00:13	74:27	109:40				273	2	436		.56	-6.9		POS'N MARK	270.8
7	V3	00:20	74:22	111:40				269	3	2090		.55	-6.6		POS'N MARK	270.6

LOG CERTIFIED BY: _____ DATE: ___/___/___

FORM R-5
01/88

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE-MAP-87
Study Area: Viscount Melville Sound
Pilot: June Montgomery
Operator: B. PETERS
Downlink Location: —

Date (DD/MM/YY): ~~23~~ 03189
Mission/Flt. No.: 15/2~~0~~
HDDT No.: ~~H0002~~ H1007

TX Incident Power: -4.0 dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB): 25
Ground Conversion: ____
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	
8	V3	00:25	74:18	113:00	L	277	290	265	3	3580	20	.54	-7.1	1	POS'N MARK	269.3
9	V3	00:32	74:12	114:40	L	277	290	261	3	5460	20	.54	-7.1	1	END	270.2
1	V4	00:46	74:32	114:45	R	080	290	257	3	8610	20	.53	-6.8	1	START LINE	92.1
2	V4	00:58	74:41	111:40				263	4	6320		.54	-6.6		POS'N MARK	90.6
3	V4	01:05	74:45	109:40				257	4	4130		.53	-6.5		POS'N MARK	89.2
4	V4	01:16	74:49	106:40				263	4	830		.54	-6.5		POS'N MARK	89.5
5	V4	01:26	74:51	104:00				265	5	2400		.54	-6.8		POS'N MARK	89.5
6	V4	01:36	74:51	101:00				259	5	5630		.53	-6.6		POS'N MARK	88.9
7	V4	01:46	74:49	98:20				261	5	8550		.54	-6.8		POS'N MARK	88.7
8	V4	01:54	74:45	96:10				255	6	7300		.52	-7.0		POS'N MARK	89.0
9	V4	02:	74:41	94:10	R	080	290	257	6	5140	20	.53	-6.9	1	END	88.4

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

FORM R5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R98 486 Date (DD/MM/YY): 23/03/89 TX Incident Power: ____ dB

Project Name: CANADIAN ICE ATLAS Mission/Flt. No.: 16/23 TX Reflected Power: ____ dB RTP Mode ____

Study Area: VISCOUNT MELVILLE SOUND HDDT No.: ~~H0862~~ H1007 TWT Meter: ____ Hrs. SWATH: Width ____

Pilot: M. KOLSEY RX Atten (dB): 25 Sub: ____

Operator: M. FRUHWIRTH Ground Conversion ____ LUT: Intensity ____

Downlink Location: — RTP Looks: all STC 3

MARK	LINE	GMT TIME	POSITION		LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND. SPEED (Kts)	HDDT		SLANT RANGE DELAY (km)	PAPER SPEED	ANT ELEV	RTP GAIN	COMMENTS
			LAT.	LONG.					TRK	FOOTAGE					
1	V6	04:13	75 20	74 24	L	276	310	261	6	4200	21	0.53	7.1	1	START
1		4:23	75 24	47 00				261	6	1400					Position
2		4:33	75 26	100 00				261	7	1470					Position 273°
3		4:43	75 27	103 00				265	7	5100					—"— 272
~~3~~ 4		4:58	75 24	107 05				268	8	9100					— —
4		5:15	75 14	112 05				266	8	3900					—"—
5		5 25	75 05	115 01				258	8	0700					—"—
6	V6	5 28	75 02	115 56	L			259	9	0700					END
1	V5	5:51	74:47	115 13	R	79	310	239	9	04120	21	0.50	7.1	1	START
1		6:00	74 54	112 02					19	7000					Position
2		6:15:30	75 03	109 00					10	5400					—"—
3		6:24	75 06	106 54				244	10	4500					—"—
4		6:53	75 07	~~100~~ 99 00				242	11	4780					—"—
5		7:13	—	~~99~~ 95						7590					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD/MM/YY)

PAGE 1

ORM R-5
11/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE MAP-89
Study Area: NARES STRAIT
Pilot: JUNE MONTGOMERY
Operator: B. PETERS
Downlink Location: —

Date (DD/MM/YY): 23103189
Mission/Flt. No.: 17/25
HDDT No.: ~~#0376~~ 1-1/508

TX Incident Power: — dB
TX Reflected Power: — dB
TWT Meter: — Hrs.
RX Atten (dB): 25
Ground Conversion: —
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV	RTP GAIN	data no good COMMENTS	ANT AZMTH
1	N1	16:07	74:00	89:30	L	084	290	247	1	2150	20	.51	-7.0	1	START	267.1
2	N1	16:18	74:05	86:53					1	5470					MARK INTENSITY CONVERSION CHANGE	
3	N1	16:33	74:08	83:00	L			244	1	8420		.50	-7.0	1	POS'N MARK	266.5
4	N1	16:41	74:08	81:00	L		290	242	2	5980		.50	-6.7	1	POS'N MARK	266.9
5	N1	16:45	74:07	80:00	L		290	237	2	4760	20	.49	-7.1	1	POS'N MARK	265.0
6	N1	16:47	74:07	79:30	L			236	2	4120		.48	-7.4	1	END	264.7
					SOUTH											
1	N6	17:05	74:30	79:30	L	273	280	297	2	2450	20	.61	-7.5	1	START	277.0
2	N6	17:13	74:31	81:45	L	273	280	294	2	233	20	.61	-7.5	1	POS'N MARK	276.2
3	N6	17:20	74:32	84:00	L	273	280	292	3	2300	20	.60	-7.2	1	POS'N MARK	275.9
4	N6	17:28	74:30	86:00	L	273	280	293	3	4420	20	.60	-6.8	1	POS'N MARK	276.2
5	N6	17:34	74:28	88:00	L	273	280	285	3	6260	20	.59	-7.4	1	POS'N MARK	275.7
6	N6	17:39	74:26	89:36	L	273	280	280	3	7900	20	.58	-7.6	1	POS'N MARK	274.9
7	N6	17:46	74:22	91:30	L	273	280	262	4	8527	20	.58	-7.0	1	END	273.9

LOG CERTIFIED BY: _____ OPERATOR DATE: __/__/__ DD MM YY

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

FORM R 5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R98-430
Project Name: CAVARTIC SCIENTISTS
Study Area: Bent Horn Vicinity
Pilot: M. Keyser
Operator: M. FRUHWIRTH
Downlink Location: /

Date (DD/MM/YY): 24/07/94
Mission/Flt. No.: 1B/25
HDDT No.: ~~H0860~~ H1008

TX Incident Power: _____ dB
TX Reflected Power: _____ dB
TWT Meter: _____ Hrs.
RX Atten (dB) 25
Ground Conversion on
RTP Looks: all

RTP Mode Wide Swath
SWATH: Width /
Sub: _____
LUT: Intensity 2
STC 2

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV	RTP GAIN	COMMENTS
1	BH5	3:04	74 52	100 50	L/W	334	310	253	4	7500	20	0.53	7.5	1	START
2		3:28	76 30	104 10					3	600					Position Mark
3		3:45	77 30	106 16				1)	5	5390					—"—
4		3:52	78 01	107 29				263	5	7600					—"—
5		4:01	78 34	109 53				268	6	8250					—"—
6		/	79 14	110 50				267	6	5520					END
									~~6~~	~~4160~~					
1	BH6	4:21	79 03	112 26	R/W	148	310	241	6	4160	20	0.44	7.5	1	START
1		4:30	78 28	110 26					6	940					Position
2		455	77 00	106 49				252	7	6500					—"—
2		5:03	76 29	105 41				247	7	9000					—"—
2		5:19	75 30	103 50				252	8	4600					—"—
3	BH6	5:29	74 54	102 45				249	8	1830					END
4	~~BH5~~														

LOG CERTIFIED BY: _____ (OPERATOR) DATE: / / (DD MM YY)

FORM R-5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: _____ Date (DD/MM/YY): 24 10 3699 TX Incident Power: _____ dB

Project Name: _____ Mission/Flt. No.: 16/25 TX Reflected Power: _____ dB RTP Mode _____

Study Area: Bentlorn, Viscount Melville HDDT No.: ~~H0 863~~ TWT Meter: _____ Hrs. SWATH: Width _____

Pilot: _____ H1008 RX Atten (dB) _____ Sub: _____

Operator: M. FRUHWIRTH Ground Conversion _____ LUT: Intensity _____

Downlink Location: _____ RTP Looks: _____ STC _____

MARK	LINE	GMT TIME	POSITION		LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT		SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
			LAT.	LONG.					TRK	FOOTAGE					
1	BHS 2	5 39	74 48	101 20	L/S	339	31	273	8	1200	20	0.56	7.1	1	Ref. flt South of BHS
2		5 42	75 00.	101 39					8	300					
1		5 53	/	/				276	9	2900					END
			~~74 29~~	107											
1	V3 2	6:16	74 30	106 20	R/S	86	31	234	9	3350	20	0,49	7.5	1	Reflight V3 East half
2		6:29	74 32	103 00					9	7300					Position
3		6:41	7431	~~10020~~				252	9	7570		0.52			~~END~~ Position
4		6:52	74 28	96 59				250	10	4100					— . —
5		7:03	74 23	94 10				249	10	850					END

LOG CERTIFIED BY: _____ DATE: ___/___/___

FORM R-5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R93-496 Date (DD/MM/YY): 24103184 TX Incident Power: — dB

Project Name: CANARCTIC ICE ATLAS Mission/Flt. No.: 19/26 TX Reflected Power: — dB RTP Mode WIDE

Study Area: Bent Horn HDDT No.: ~~HD0854~~ H1010 TWT Meter: — Hrs. SWATH: Width —

Pilot: M. Keysen RX Atten (dB) 25 Sub: —

Operator: M. FRUHWIRTH Ground Conversion on LUT: Intensity 0

Downlink Location: — RTP Looks: all STC 3

MARK	LINE	GMT TIME	POSITION		LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT		SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
			LAT.	LONG.					TRK	FOOTAGE					
1	BH1	8:30	76 26	98 10	L	342	310	273	1	200 +	20	0.57	7.1	1	START
1		8:38	77 00	99 00				270	1	3550					Position
2		8:45	77:30	99 45				271	1	5600					— " —
2		8:52	78 00	100 37				277	1	7730					— " —
3		9:00	78:38	101:41				276	2	8100					— " —
4		9:06	79 00	102 35				280	2	6350					— " —
5	BH2	9:18	79:51	104:36	L			269	2	2640					END
1	BH2	9:29	79 41	106'21	R	153	:10	239	2	960	20	0.49	7.1	1	START
2		9:40	79 00	104'33				239.3	3	2700					Position
3		9:44	78:30	103.22				241	3	5240					— " —
4		9:57	78 '00	102 20				239.3	3	7500					— " —
5		10 05	77 30	101 21				241	4	8170					— " —
6		10:13	77'00	100 27				239:	4	5700					— " —
7		10 19	76'34	99'46	R			240	4	3770					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: 01 / 10 / 1 (DD / MM / YY)

YELLOW: P.I. ARCHIVE PINK: P.I. ARCHIVE - PROJECT MANAGER

FORM R-5
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE MAP 89
Study Area: EUREKA Sound
Pilot: June Montgomery
Operator: B. PETERS / KEITH TENNANT
Downlink Location: —

Date (DD/MM/YY): 24/03/89
Mission/Flt. No.: 20/27
HDDT No.: H0864
H1010

TX Incident Power: — dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB): 25
Ground Conversion ____
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZM
	ESI		77 55	91 86	R	022	290		4/1					4/1		X
1	ESI	14:52	77 30	91 26	R	022	290	260	5	2440	20	.54	-6.7	1	online	80.7
2	ESI	14:58	77:55	90 35	R	022	290	266	5	4290	20	.53	-6.7	1	START LINE	80.1
3	ESI	15:07	78 :28	89:23	R	022	290	255	5	6840	20	.52	-6.7	1	POS'N MARK	80.
4	ESI	15:16	79:00	88:05	R	022	290	258	5	8950	20	.52	-6.8	1	POS'N MARK	82
5	ESI	15:19	79:12	87 31	R	022	290	259	6	7980	20	.53	-6.9	1	TERRAIN FEATURE (KIETH)	81.
6	ESI	15:27	79:46	85:55	R	022	290	256	6	5320	20	.52	-6.5	1	ENDLINE	84.1
1	ES2	15:49	79:00	87:00	R	344	290	283	6	4080	20	.58	-6.8	1	START LINE	83.
2	ES2	15:56	79:32	87:50	R	344	290	280	6	1940	20	.57	-6.6	1	POS'N MARK	84.
3	ES2	16:04	80:05	88 47	R	344	290	282	7	520	20	.58	-6.8	1	POS'N MARK	85.
4	ES2	16:12	80,42	90:00	R	344	290	275	7	3060	20	.56	-6.8	1	END	85.6

LOG CERTIFIED BY: ____ (OPERATOR) DATE: __/__/__ (DD MM YY)

PAGE 1 of ?

YELLOW — QA ARCHIVE PINK — QA ARCHIVE / PROJECT MANAGER

FORM R5
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE MAP-89
Study Area: EUREKA SOUND
Pilot: June Montgomery
Operator: B. PETERS / K. TENNANT
Downlink Location:

Date (DD/MM/YY): 24/03/89
Mission/Flt. No.: 20/27
HDDT No.: ~~H0864~~ H1010

TX Incident Power: ~ dB
TX Reflected Power: dB
TWT Meter: Hrs.
RX Atten (dB): 25
Ground Conversion
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZMTH X
1	E53	16:36	80°03	90°00	R	332	290	285	7	4060	20	.59	-6.7	1	START	85.4
2	E53	16:43	80°35	91°45	R	332	290	283	7	6420	20	.58	-7.2	1	POS'N MARK	85.3
3	E53	16:52	81°07	93°45	R	332	290	281	7	8770	20	.57	-6.8	1	POS'N MARK	86.4
4	E53	16:53	81°16	94°20	R	332	290	281	8	8800	20	.57	-7.0	1	END	86.4
1																

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

PAGE 2 of 7

FORM R5
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE-MAP 89
Study Area: Sverdrup
Pilot: June Montgomery
Operator: B PETERS
Downlink Location: —

Date (DD/MM/YY): 24/03/89
Mission/Flt. No.: 21/25
HDDT No.: H0865
H1011

TX Incident Power: — dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB) 25
Ground Conversion ____
RTP Looks: ALL

RTP Mode WIDE
SWATH: Width FULL
Sub: ____
LUT: Intensity 3
STC 0

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZM: 8
1	55	20:50	76:38	95:40	R	343	280	296	1	1500	20	.61	-6.0	1	START	81.3
2	55	20:58	77:16	96:33	R	343	280	293	1	4000	20	.60	-5.5	1	POS'N MARK	82.1
3	55	21:09	78:08	97:55	R	343	280	295	1	7315	20	.61	-5.6	1	POS'N MARK (Mob R. ice?)	84.6
4	55	21:19	78:55	99:20	R	343	280	293	2	8034	20	.60	-5.7	1	POS'N MARK	82.9
5	55	21:26	79:26	100:26	R	343	280	288	2	5900	20	.59	-5.4	1	POS'N MARK	83.7
6	55	21:30	79:46	101:10	R	343	280	293	2	4610	20	.60	-5.4	1	POS'N MARK	83.1
7	55	21:36	80:11	102:10	R	343	280	290	2	2960	20	.60	-5.4	1	END	84.7
1	56	21:46	80:04	103:40	L (not)	156	280	247	2	820	20	.50	-5.5	1	START	277.3
2	56	21:56	79:25	102:05	L	156	280	258	3	2600	20	.51	-5.3	1	POS'N MARK	277.6
3	56	22:05	78:50	100:51	L	156	280	258	3	5250	20	.52	-5.0	1	POS'N MARK	277.9
4	56	22:15	78:13	99:40	L	156	280	246	3	8090	20	.50	-5.0	1	POS'N MARK	276.1
5	56	22:23	77:41	98:45	L	156	280	246	4	7750	20	.50	-5.0	1	POS'N MARK (RMS VIBRO 9)	277.5
6	56	22:30	77:13	96:00	L	156	280	251	4	5560	20	.51	-5.0	1	POS'N MARK	277.3
7	56	22:31	76:38	97:10	L	156	280	250	4	2970	20	.51	-5.2	1	END	276.9

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — OA ARCHIVE PINK — OA ARCHIVE - PROJECT MANAGER

FORM RS
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE MAP 89
Study Area: SVERDRUP
Pilot: JUNE Montgomery
Operator: B. PETERS
Downlink Location: —

Date (DD/MM/YY): 24/03/89 → 21/25
Mission/Flt. No.:
HDDT No.: H0865 H1011

TX Incident Power: — dB
TX Reflected Power: dB
TWT Meter: Hrs.
RX Atten (dB): 25
Ground Conversion
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZM
1	57	22:54	76:25	98:17	R	342	280	300	5	850	20	.61	-6.0	1	RMS VIDEO = 9 START CL=8	85.4
2	57	23:01	76:57	99:05	R	342	280	296	5	2900	20	.60	-5.0	1	RMS VIDEO = 25 POS'N MARK CL=10	85.1
3	57	23:11	77:42	100:20	R	342	280	293	5	5850	20	.60	-5.0	1	VIDEO = 15 POS'N MARK	85.1
4	57	23:20	78:27	101:40	R	342	280	302	5	8570	20	.62	-5.0	1	POS'N MARK	86.1
5	57	23:25	78:47	102:25	R	342	280	305	6	8290	20	.62	-5.0	1	REV REPLAY AZIMTH AOS VIDEO=26	85.6
6	57	23:34	79:28	104:00	R	342	280	290	6	5590	20	.60	-5.0	1	VIDEO = 30dB POS'N MARK	85.0
7	57	23:39	79:49	104:53	R	342	280	293	6	4200	20	.60	-5.0	1	END	84.8
1	58	23:50	79:40	106:30	L	153	280	254	6	2170	20	.52	-5.3	1	VIDEO = 25 RMS START LINE	276.6
2	58	23:59	79:09	105:00	L	153	280	257	7	770	20	.52	-4.9	1	VIDEO = 15 RMS POS'N MARK	277.0
3	58	00:09	78:27	103:30	L	153	280	258	7	3750	20	.52	-5.2	1	VIDEO 19 RMS POS'N MARK	277.1
4	58	00:18	77:54	102:20	L	153	280	257	7	6330	20	.52	-5.0	1	VIDEO = 15 RMS POS'N MARK	276.2
5	58	00:24	77:30	101:35	L	153	280	258	7	8140	20	.52	-5.0	1	VIDEO = 8 RMS POS'N MARK	276.6
6	58	00:33	76:53	100:30	L	153	280	261	8	7400	20	.53	-5.0	1	VIDEO = 15 RMS POS'N MARK	277.7
7	58	00:42	76:18	99:35	L	153	280	263	8	4870	20	.54	-5.0	1	VIDEO = 17 RMS END	277.9

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — CA ARCHIVE PINK — CA ARCHIVE PROJECT MANAGER

FORM R5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR

Project Number: R88-436 | Date (DD/MM/YY): 25/03/89 | TX Incident Power: -3.9 dB | RTP Mode WIDE

Project Name: CANADA ICE MASS 1989 | Mission/Flt. No.: 22/29 | TX Reflected Power: - dB | SWATH: Width FULL

Study Area: CAMBRIDGE - COLONSAY GULF | HDDT No.: ~~R8805~~ H1011 | TWT Meter: - Hrs. | Sub: —

Pilot: M. KEYSER | RX Atten (dB) 25 | LUT: Intensity 9

Operator: L. FERLAND | Ground Conversion GW | STC 83

Downlink Location: NRA | RTP Looks: 7

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
	C4A	15:56	N 70°31	W 97°30	L/E	283°	310	273	8	4000	20	0.56	-10 272	1	S.O.L
01	C4A	15:57	N 70°25	W 97°40'	L	213°	310	270	8	3400	20	0.56	-7 272	1	S.O.D
02	C4A	16:15	N 69°20	W 99°40	L		310	260	9	1950	20	0.53	-7 271	1	P.M 67 44 102 10
03	C4A	16:27	N 68°32	W 100°58	L/E		310	263	9	5600	20	0.54	-7.5 269	1	M.L R1 FLAT RET
04	C4A	16:40	N 67°44'	W 102°10'	L/E		310	262	10	9040	20	0.54	-7 267	1	E.O.D
	C11A	16:05	N 66°51	W 105°43	L/W	324	310	237	10	7000	20	0.49	-7 271	1	S.O.L LE 23 105 48
01	C11A	17:07	N 66°56	W 105°53	L/W			241	10	8210		0.49	-7.2 272	1	S.O.D
02	C11A	17:24	N 67°50'	W 107°38	L/W		310	245	10	3170	20	0.50	-7 272	1	PM
03	C11A	17:35	68°03'	108°48	L/W		310	234	11	450	20	0.46	-7.2 268.8	1	E.O.D
~~R5A~~	R5A	17:50	N 68°58	W 110°10'	R/S	074°	310	243	11	800	20	0.50	-7.1 93.5	1	S.O.L
01	C5A	17:52	68°54	W 110°58'	R/S			243	11	1300	20	0.50	-6.9 93.6	1	S.O.D GE 73 G 92 HDTS 104
02	C5A	18:06	N 69°14	W 107°15	R/S			244	11	5630	20	0.50	-7 93.7	1	PM
03	C5A	18:20	N 69°27	W 104°10	R/S			250	12	7950	20	0.52	-7 93.3	1	E.O.D

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE, PROJECT MANAGER

FORM R
02/85

STAR 1 DATA TAPE LOG

Project Number: R88-456
Project Name: CANADIAN ICEBERG 89
Study Area: CORONATION GULF

Date (DD/MM/YY): 25 / 03 / 89
Mission/Flt. No.: 22/29
HDDT No.: ~~R1011~~ H1011

Pilot: M. KEYSOR
Operator: K DOWNEY
Downlink Location: N/A

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG	LOOK DIR. (L/R)	TRACK (°T)	ALT. AGL (Feet)	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	RANGE DELAY	PAPER SPEED	ANT AZ EL	COMMENTS
~~01~~	C4A	18:35	69°16	101°52	L/S	262	310	255	12	7000	20	0.52	-68 2.6	S.O.L WIDE FAR STC = 3
01	C4A	18:40	N 69°85	W 102°15	L/S		310	259	12	6300	20	0.53	-7.3 2.68	S.O.D ATN=25 RTD=1
02	C4A	19:00	69°00	106°13'	L/S		310	262	12	310	20	0.54	-7 269.3	P/M
03	C4A	19:19	68°39	110°00'	L/S		310	276	13	5800	20	0.54	-25 268.4	E.O.D
	C7A	19:32	68°17	110° 38'	R/S		310	253	13	6025	20	0.52	-6.5 93.6	S.O.L
01	C7A	19:36	68°20'	110°00'	R/S	074	310	248	13	7000	20	0.54	-6.9 93.4	S.O.D
02	C7A	19:57	68°42	106°00'	R/S		310	255	14	5000	20	0.52	-7.2 94.4	P/M 10240
03	C7A	20:12	68°54	103°00'	R/S		310	267	14	600	20	0.55	-6 93.5	E.O.D
				10242							&			

LOG CERTIFIED BY: _____ (OPERATOR)
DATE: 1 / 1 (DD / MM / YY)

COPY 1: QA ARCHIVE COPY 2: QA ARCHIVE - PROJECT MANAGER

FORM R-1
02/8'

STAR 1 DATA TAPE LOG

Project Number: R&B-416
Project Name: CALIBRATION ICE MAPS 89
Study Area: SOUTHEAST - CORONATION GULF

Date (DD/MM/YY): 25/2/ 3 /89
Mission/Flt. No.: 23/30
HDDT No.: ~~76553~~ H1012

Pilot: M. LEVESQUE
Operator: K. [illegible]
Downlink Location: NA

MARK	LINE	GMT TIME	POSITION		LOOK DIR (L/R)	TRACK (°T)	ALT. AGL (Feet)	GRND. SPEED (Kts.)	HDDT		RANGE DELAY	PAPER SPEED	ANT CL AC	COMMENTS
			LAT.	LONG.					TRK	FOOTAGE				
	C7B	21:55	68°25	109°08	L/S	255	290	263	1	100	20	0.54	-6 2676	S.O.L. MAN MKR: 25 CTR=7
01	C7B	21:57	68°20	110°08	L/S	~~248~~	290	265	1	1700	20	0.55	-6.6 262.8	S.I.O SIZ=3
02	C7B	22:11	68°05	112°45	L/S		290	264	1	5170	20	0.54	-6.1 267.5	P.M.
03	C7B	22:27	67°39	115°35	L/S		290	257	2	7360	20	0.53	-7 267	E.O.D
	C6B	22:37	67°57	116°15	R/S	069°	290	252	2	7400	20	0.52	-7.3 92.9	S.O.L
01	C6B	22:45	~~68°01~~ 67°01	115°~~05~~ 15	R/S		290	255	2	5500	20	0.52	-7.1 93.5	S.I.O
02	C6B	23:02	68°25	112°10	R/S		290	253	2	400	20	0.52	-6.9 94.2	P.M
03	C6B	23:14	68°40	110°00'	R/S		290	250	3	3300	20	0.53	-6 93.5	E.O.D
	C6B	23:23	68°53	110°04'	L/S	254°	290	249	3	4040	20	0.51	-6.5 267.6	S.O.L
01	C6B	23:29	68°51	111°10	L/S	"	310	250	3	5750	20	0.53	"	
02	C6B	23:40	68°36	113°10	L/S	"	310	260	3	8540	20	0.53	-6.5 265	P.M
03	C6B	23:56	68°13	116°15	L/S		310	262	4	4335	20	0.54	-6.8 265.8	E.O.D

LOG CERTIFIED BY: _____ (OPERATOR)

DATE: 1 / 1 (DD MM YY)

COPY 1: QA ARCHIVE COPY 2: QA ARCHIVE - PROJECT MANAGER

STAR 1 DATA TAPE LOG

FORM # 1
02-85

Project Number: R88 426
Project Name: CANADIAN HUB ARCTOS
Study Area: CNO A - S BEAUFORT GULF

Date (DD/MM/YY): 26 / 03 / 89
Mission/Flt. No.: 23/30
HDDT No.: ~~[illegible]~~ 11012

Pilot: M. KOSER
Operator: K TENNANT
Downlink Location: N/A

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR (L/R)	TRACK (°T)	ALT AGL (Feet)	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	RANGE DELAY	PAPER SPEED	ANT BRN ACFT	COMMENTS
	C9B	00:29	68°49	111°47	L/SW	300°	310	242	4	4000	20	0.50	-6.5 265.5	S.O.L NICE R/F=L
01	C9B	00:32	68°55N	112°16'W	L/SW		310	245	4	3200	20	0.50	-6 266.	S.OD R/F=25 SR=03
02	09B	00:53	69°37	W 116° 00'	L/SW		310	259	5	3440	20	0.53	-6.5 264	P.M. 70°3 W=40
03	09B	01:06	70°03'	115°40'	L/SW		310	274	5	7500	20	0.56	-6° 264.5	E.O.L
	C10A	01:15	70°23	115°53	R/SW	113	310	237	6	9000	20	0.49	-7.1 95.3	SOL
01	C10A	01:17	N 70°20	W 115°30	R/SW		310	239	6	8400	20	0.49	-6.5 96.9	S.OD
02	C10A	01:29	N 70°CN	W 116°30'	R/SW		310	251	6	6600	20	0.52	-6.9 9.9	PM C9 52W 112 40
03	C10A				R/SW		310				20			
0														
				TURN	AROUND		LOST		V1030		LEVER		INS??	
	C10B	01:	N 69°43	W 114 15	R/SW				6	700	20			
02	C10B	01:55	69°31'	113°38	R/SW		310	262	7	1390	20	0.51	-7.1 96.2	PM
03 ~~04~~	C10B	02:02	69°20	112°40	R/SW		310	267	7	2973	20	0.55	-6.8 94.8	E.OD
~~03~~	C10B				R/SW						20			

DATE: 1 / 1

CANARCTIC

FORM R 1
02/85

STAR 1 DATA TAPE LOG

Project Number: R89-486
Project Name: ICE ATLAS 89
Study Area: LANCASTER SOUND

Date (DD/MM/YY): 26 / 03 / 89
Mission/Flt. No.: ~~25/32~~ 24/32
HDDT No.: ~~H0013~~ H0013 Rx Ant 25

Pilot: J. Montgomery
Operator: M. FRUHWIRTH
Downlink Location: /

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	TRACK (°T)	ALT. AGL (Feet)	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	RANGE DELAY	PAPER SPEED	COMMENTS
L1A	L2A	14:56	74°05	88 30	R	84	290	247	1	0150	20	0.51	START
2		15 16	74°07	85 30				237	1	4700			Position
3		15 22	74°07	84 00					1	6550			—"—
4		15:30	74 07	8200				232	1	9000			—"—
5		15:33	74 06	81 14					2	8420			—"— Photo #13
6		15 35	74 06	80°47				238	2	7800			—"— Photo #12, 13
7		15:38	74.05	80:05				239	2	7000			—"— Photo #14
8		15:44	74°03	73:37					2	5100			Photo #15, 16
9		15 47	74 02	78:13				237	2	4550			Photo 17
10		15:48	74 02	77.55				241	2	4190			Photo 18
11		15:51	74 00	76 50				238	2	2800			P 19
12		15 54	73 59	76°14					2	/			P 20
13		15:59	73 55	75 00	R			243	2	500			END
1	L2A	16:10	74°13	75°00	L	279	290	286	3	1400	20	0,54	START
2		16:20	74°19	78°00				287	3	4400			~~T-A~~ Position
3		1633	74 24	81 40					3	8100			Position

LOG CERTIFIED BY: _____ (OPERATOR)

DATE: ___ / ___ / ___ (DD MM YY)

CANARCTIC

FORM R 1
02/85

STAR 1 DATA TAPE LOG

Project Number: RBB-486
Project Name: ZCE ATLAS 84
Study Area: LANCASTER SOUND

Date (DD/MM/YY): 29/03/89
Mission/Flt. No.: 25/33 24/32
HDDT No.: #0867 11, 13

Pilot: J. Montgomery
Operator: M. Braithwaite
Downlink Location: —

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG	LOOK DIR (L/R)	TRACK (°T)	ALT. AGL (Feet)	GRND. SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	RANGE DELAY	PAPER SPEED	COMMENTS
4	L2A	16:37	74 24	83 00	L	279	290	296	4	8970	20	0.61	Position
5		16 46	74 24	85 32					4	6400			—"—
6		16 50	74 23	87 00					4	4500			—"—
7		16 55	74 22	88:30					4	3474			END
7	L3A	17 —	73'56	88'18	L	095	290	237	4 237	2000	20	0.49	START
2		17'20	73'50	87'00				235	5	900			Position
3		1725	73 59	85 00					5	2400			—"—
4		17:37	73'57	82 55				241	5	6100			—"—
5		17'45	73 56	80'00				237	5	8520			—"—
6		17:54	73'52	78'00				238	6	7070			"—
7		18:02	73 49	76'00				231	6	4620			—"—
8		18'06	73'46	75'00				234	6	3300			END
1	L4A	18'17	74'03	75 00	R	278	290	307	6	2800	20	0.64	START
2		18:20	74 07	76 05					6	1700			Position
3		18:27	74 10	78'00				312	7	500			—"—

LOG CERTIFIED BY: _____ (OPERATOR) DATE: 1 1 (DD MM YY)

COPY 1: QA ARCHIVE COPY 2: QA ARCHIVE, PROJECT MANAGER

CANARIUC

FORM R 1
02/85

STAR 1 DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R89-486 Date (DD/MM/YY): 29/03/88 Pilot: J MONTGOMERY

Project Name: ICEMTHAS 89 Mission/Flt. No.: ~~25135~~ 24/32 Operator: M. FRUHWIRTH

Study Area: LANCASTER SOUND HDDT No.: ~~#0887~~ Downlink Location: —

MARK	LINE	GMT TIME	POSITION		LOOK DIR (L/R)	TRACK (°T)	ALT AGL (Feet)	GRND. SPEED (Kts.)	HDDT		RANGE DELAY	PAPER SPEED	COMMENTS
			LAT.	LONG					TRK	FOOTAGE			
4	L4A	18:33	74'12	80'00.	R	278	290	304	7	2300	20	0.64	Position
4		18:40	74'14	82'20					7	4560			—"—
5		18:45	74 14	84 00				304	7	6110			—"—
6		18:52	74 14	86'00				308	7	8050			—"—
7		18:59	74 12	88'04				306	8	8190			—"—
8		19:54	74 12	88 33				304	8	8700			END

LOG CERTIFIED BY: _____ (OPERATOR) _____ DATE: 1 1 (DD MM YY)

FORM R-5
01/88

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88 486
Project Name: ICE MAP 89
Study Area: BARROW STRAIT
Pilot: JUNE MONTGOMERY
Operator: BRUNO PETERS
Downlink Location: N/A

Date (DD/MM/YY): 02/04/89
Mission/Flt. No.: 27 / 40
HDDT No.: ~~H0870~~ H1015

TX Incident Power: - dB
TX Reflected Power: - dB
TWT Meter: - Hrs.
RX Atten (dB): 25
Ground Conversion: -
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZIMTH
1	B1b	20:38	74:24	98:50	SOUTH R	089	290	284	7	3950	20	.57	-7.0	1	SOP.	91.1
2	B1b	20:47	74:24	95:44				284	7	6230		.57	-7.1	C.L. to 4 straight	LOS'N MARK VIDEO=10	91.3
3	B1b	20:54	74:23	93:35				285	7	8410		.58	-7.3	1 "	P.M.	91.2
4	B1b	21:03	74:20	91:00				284	8	7330		.58	-6.8	1	P.M.	91.1
5	B1b	21:12	74:15	88:20				285	8	4540		.58	-7.0	1	P.M.	90.7
6	B1b	21:19	74:10	86:30				284	8	2600		*.58	-6.7	1	P.M.	90.3
7	B1b	21:24	74:05	84:50				283	8	0860		.58	-6.8	1	P.M.	90.7
8	B1b	21:31	73:58	83:00	R	089	290	283	9	1320	20	.58	-6.8	1	EOP.	89.5
1	B2b	21:43	74:15	82:45	SOUTH L	284	290	251	9	3380	20	.51	-6.0	1	SOP.	268.
2	B2b	21:53	74:24	85:16				251	9	6360		.51	-6.1		P.M.	271.
3	B2b	21:59	74:29	86:50				250	9	8290		.51	-6.1	C.L. to 8, 10	P.M. VIDEO drop to 10 RMS	270.6
4	B2b	22:10	74:35	89:40				252	10	6770		.51	-6.1		P.M. "	269.1
5	B2b	22:21	74:39	92:20				251	10	3690		.51	-6.6		P.M.	269.5
6	B2b	22:29	74:42	94:40	L	284	290	250	10	1060	20	.51	-6.6	1	P.M. VIDEO=8	268.1

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

PAGE 1 of

* TM503 momentarily showed value = 0.00 mm/s then returned to 0.58 mm/s

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

FORM R-5
01/88

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE MAP-87
Study Area: BARROW STRAIT
Pilot: June Montgomery
Operator: BRUNO PETERS
Downlink Location: N/A

Date (DD/MM/YY): 02/04/89
Mission/Flt. No.: 03 27/42
HDDT No.: ~~H0886~~ H1012

TX Incident Power: - dB
TX Reflected Power: - dB
TWT Meter: - Hrs.
RX Atten (dB): 25
Ground Conversion: -
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZM
7	B2b	22:35	74:42	96:00	SOUTH L	284	290	246	11	695	20	.50	-6.7	1	B.M.	268
8	B2b	22:42	74:42	98:00	L	284	290	242	11	3020	20	.49	-6.7	1	E.O.D.	268.4
1	B3b	22:55	75:00	98:00	SOUTH R	~~089~~	290	293	11	4220	20	.60	-7.2	1	S.O.D.	90.
2	B3b	23:05	75:00	95:00				291	11	7100		.60	-6.7		P.M.	90.
3	B3b	23:15	74:57	93:45				289	12	8010		.59	-7.3		P.M.	90.6
4	B3b	23:24	74:52	89:00				287	12	5300		.54	-7.2		P.M.	90.4
5	B3b	23:34	74:45	86:00				286	12	2540		.58	-7.1		P.M.	90.
6	B3b	23:39	7440	84:40				284	12	0950		.58	-6.6		P.M.	90.6
7	B3b	23:46	74:33 N	82:35 W	SOUTH R	089	290	~~286~~	13	1420	20	.58	-7.1	1	EOD	89.8
1	B4b	00:24	74:30 N	91:30 W	NORTH R	278	290	252	13	2980	20	.52	-6.9	1	S.O.D	89.5
2	B4b	00:32	74:33	93:28				251	13	5270		.51	-7.2		P.M.	89.6
3	B4b	00:37	7435	95:00	R	278	290	253	13	7000	20	.52	-7.0	1	P.M.	89.8

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

FORM R-5
01/88

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICEMAP 87
Study Area: BARROW ST.
Pilot: JUNE MONTGOMERY
Operator: BRUNO PERRAS
Downlink Location: NIA

Date (DD/MM/YY): 03/04/87
Mission/Flt. No.: 27/40
HDDT No.: ~~H0866~~ H1012

TX Incident Power: - dB
TX Reflected Power: - dB
TWT Meter: - Hrs.
RX Atten (dB): 25
Ground Conversion: -
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	AN AZ
4	BH6	00:41	74:35	96:00	R BOTH	278	290	252	13	8140	20	.51	6.8	1	P.M.	4 88.
5	BH6	00:45	74:36	97:00	R	278	290	250	14	8980	20	.51	-6.5	1	PM VIDEO=8BMS	5 5.
6	BH6	00:49	74:36	98:00	R	278	290	252	14	7840	20	.51	-6.6	1	EOP	87.
				BOARDING ON OP?	EOD				(UNBLACK ON MON)							

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

PAGE 3 of ..

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

COPY

FORM R-5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE ATLAS 89
Study Area: NARES
Pilot: J. Montgomery
Operator: M. FRUHWIRTH
Downlink Location:

Date (DD/MM/YY): 31089
Mission/Flt. No.:
HDDT No.: ~~H0860~~ H1014

TX Incident Power: -5.9 @ 968 Hz dB
TX Reflected Power: / dB
TWT Meter: / Hrs.
RX Atten (dB) 25
Ground Conversion
RTP Looks: all

RTP Mode
SWATH: Width
Sub:
LUT: Intensity
STC 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV	RTP GAIN	COMMENTS
1	N1	2153	74 00	89 30	L/W	093	290	286	1	200	20	0.59	5.0	1	START
2		13:02	74 04	87 00					1	3340					Position Mark
3		13:10	74 07	84:30				285	1	6020					Damping Ratio 13
4			74 03	81 50				284	1	8600					Position
5	N1	13 28	74 07	79 30				278	2	7040					END
1	N2	1335	74 32	78 50	L/W	017	290	268	2	6470	20	0.55	3.0	1	START
2		13 41	78 00	79 04					2	3900					Position
3		13:57	76 05	76 31					3	990					— 1.—
4		14:09	77 00	75 08				279	3	4737		0.57			— 1.—
5		14:23	78 00	73:15				279	3	8980					Position
6	N2	1435	78 48	71 28				273	4	5860					END
1	N3	1455	78 33	73 10	L/W	074	290	273	4	5740	20	0.56	3.0	1	START
2		15:13	79 30	69 30					5	200					Position

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD / MM / YY)

PAGE ___ of

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

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FORM R-5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE ATLAS 89
Study Area: NARES STRAIT
Pilot:
Operator: M. FRANKWIRTH
Downlink Location:

Date (DD/MM/YY): 03/04/89
Mission/Flt. No.:
HDDT No.: ~~H0868~~ 41014

TX Incident Power: dB
TX Reflected Power: dB
TWT Meter: Hrs.
RX Atten (dB)
Ground Conversion
RTP Looks:

RTP Mode
SWATH: Width
Sub:
LUT: Intensity
STC

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND. SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT ELEV	RTP GAIN	COMMENTS
3	N3	15 21	80 00	67 51	L/R	027	290	~~274~~	5	2700	20	0.56	7.0	1	Position
4		15 38	81 03	63 26				277	5	7500					— " —
6	N3	15 59	82 18	56 28				265	6	4400					END Parkyour Marks
			82 18												LAND AT ALERT
1	N4	18:17	82 35.	58 30.	L/R	222	290	255	6	4000	20	0.53	7.0	1	START
2		18:28	82 00	62 05.					7	0814					Position
3		18:51	80 38	68 25				259	7	7780					Position
~~5~~ 5	N4	19 27	78 24	75 00				248	9	~~7~~ 4a					~~Position~~ END
1	N5	19:45	78 55	73 43	L/R	202	290	250	9	500	20	0.52	7.5	1	START
2		19:59	78 00	75 31					9	5600					Position
3		20 14	77 00	77 10				256	10	8150					— " —
4		20 29	76 00	78 34				259	10	3750					— " —
5		20 44	74:57	79 51				260	11	1000					— " —

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW - DA ARCHIVE PINK - DA ARCHIVE PROJECT MANAGER

FORM R5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: 283-486 Date (DD/MM/YY): 310489 TX Incident Power: _____ dB

Project Name: _____ Mission/Flt. No.: _____ TX Reflected Power: _____ dB RTP Mode _____

Study Area: NARES STRAIT HDDT No.: ~~H0368~~ H1014 TWT Meter: _____ Hrs. SWATH: Width _____

Pilot: J Montgomery RX Atten (dB) _____ Sub: _____

Operator: M. FRUHWIRTH Ground Conversion _____ LUT: Intensity _____

Downlink Location: _____ RTP Looks: _____ STC _____

MARK	LINE	GMT TIME	POSITION		LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT		SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
			LAT.	LONG					TRK	FOOTAGE					
6	NS	20:50	74°30	88°20	L		290	260	11	2470	20			1	END
1	N6	21:04	74°30	79°~~30~~	L	274	290	251	11	3600	20	0.52	25	1	START
2		21:13	74 32	82 00				247	11	6680					Position
3		21:21	74 32	84 40				250	12	9200					— " —
4		21:30	74 30	86 30				255	12	0310					— " —
5		21:44	74 25	90 05				256	12	2155					— " —
6	N6	21:49	74 22	91 30				261		0590					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

FORM C 5
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486 | Date (DD/MM/YY): 04/04/89 | TX Incident Power: - dB
Project Name: ICE MAP-89 | Mission/Flt. No.: 30/43 | TX Reflected Power: - dB | RTP Mode: WIDE
Study Area: PRINCE Regent (2 refl lines) | HDDT No.: ~~H0856~~ | TWT Meter: - Hrs. | SWATH: Width: FULL
Pilot: MARVIN KOOSER | ~~H015~~ H1015 | RX Atten (dB): 25 | Sub: -
Operator: BRUNO PETERS | Ground Conversion: - | LUT: Intensity: 3
Downlink Location: N/A | RTP Looks: ALL | STC: 0

MARK	LINE	GMT TIME	POSITION LAT. N	POSITION LONG. W	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND. SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT ELEV	RTP GAIN	COMMENTS	ANT AZM
1	PR7a	00:18	72 21	84 56	R	164	310	266	1	400	20	.54	-7.6	1	SOL.	86.0
2	PR7a	00:23	71:58	89 35				266	1	1990		.54	-7.0		SOP.	86.1
3	PR7a	00:32	71:18	89:00				267	1	4820		.54	-7.0		P.M.	86.2
4	PR7a	00:40	70:46	88:34				271	1	7060		.55	-6.8		P.M.	88.5
5	PR7a	00:49	70:08	88:05				265	2	8630		.54	-7.1		P.M.	85.3
6	PR7a	00:58	69:17	87:35				262	2	5690		.53	-7.1		P.M.	84.3
7	PR7a	01:07	68:50	87:10				260	2	3070		.52	-7.0		P.M.	84.0
8	PR7a	01:17	68:10	86:45	R	164	310	263	2	270	20	.53	-7.0	1	EOL.	83.8
~~1~~	PR6a	01					310		3		20			1	SOL	
1	PR6a	01:38	69.03 N	88:10 W	L	345	310	243	3	1660	20	.50	-6.8	1	SOP.	277.
2	PR6a	01:48	69:38	88:37				239	3	4380		.48	-6.7		P.M.	276.4
3	PR6a	01:57	70:14	89:08				236	3	7200		.48	-7.1		P.M.	275.6
4	PR6a	02:07	70:53	89:42				234	4	7940		.48	-7.1		P.M.	274.7
5	PR6a	02:16	71:32	90:20	L	345	310	237	4	4930	20	.48	-6.9	1	EOL	274.0

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — OA ARCHIVE PINK — OA ARCHIVE - PROJECT MANAGER

FORM RS 01/88

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICEMAP-89
Study Area: PRINCE REGENT
Pilot: MARK KEYSER
Operator: BRIAN PETERS
Downlink Location: N/A

Date (DD/MM/YY): 04/04/89
Mission/Flt. No.: 30/43
HDDT No.: ~~H0806~~ H1015

TX Incident Power: — dB
TX Reflected Power: — dB
TWT Meter: ____ Hrs.
RX Atten (dB): 25
Ground Conversion: ____
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: B
STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZM (°)
1	PR5a	02:32	71:07	90:50	WEST R	164	310	279	4	2010	20	.56	-6.8	1	SOD.	87.0
2	PR5a	02:41	70:28	90:15				282	6	865		.57	-7.0		P.M.	87.2
3	PR5a	02:50	69:50	89:43				281	5	3385		.57	-7.1		P.M.	86.8°
4	PR5a	02:58	69:14	89:15				278	5	5760		.58	-6.9		P.M	85.9°
5	PR5a	03:05	68:43	88:52				284	5	7840		.57	-6.8		P.M.	84.4°
6	PR5a	03:08	68:27	88:40	R	164	310	282	5	8865	20	.57	-7.1	1	EOP.	84.8°
1	PR1a	03:45	70:25	85:50	SOUTH R	106	310	286	6	7940	20	.58	-7.0	1	S.O.D.	91.6°
2	PR1a	03:52	70:16	84:20				284	6	6050		.58	-7.0		P.M.	88.8°
3	PR1a	03:58	70:06	83:50				288	6	4040		.58	-7.1		P.M.	90.3°
4	PR1a	04:02	70:00	82:00				289	6	2860		.58	-7.2		P.M.	91.5°
5	PR1a	04:07	69:53	81:00				291	6	1520		0.60	-6.8		P.M.	89.7°
6	PR1a	04:11	69:46	80:10	R	106	310	289	6	390	20	.59	-7.4	1	EOP.	90.3°

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ____ (DD MM YY)

FORM R5
01/86

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE-MAP-89
Study Area: PRINCE REGENT
Pilot: MARVIN KEYSER
Operator: BRUNO PETERS
Downlink Location: N/A

Date (DD/MM/YY): 04/04/89
Mission/Flt. No.: 31/44
HDDT No.: ~~H0869~~ H1015

TX Incident Power: — dB
TX Reflected Power: — dB
TWT Meter: — Hrs.
RX Atten (dB) 25
Ground Conversion —
RTP Looks: ALL

RTP Mode WIDE
SWATH: Width FULL
Sub: —
LUT: Intensity 3
STC 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT AZM
1	PR10a	06:03	68:10	84:13	L (west)	347	310	239	7	1800	20	.48	-6.9	1	SOP	276.8
2	PR10a	06:10	68:40	84:30				238	7	4030		.49	-7.1		P.M.	276.8
3	PR10a	0618	69:10	84:48				237	7	6350		.48	-6.8		P.M.	276.3
4	PR10a	06:27	69:50	85:13				236	8	8840		.48	-7.1		P.M.	274.9
5	PR10a	06:38	70:30	85:40	L	347	310	232	8	5690	20	.47	-6.7	1	EOP.	275.4
1	PR9a	06:51	70:30	86:30	R (east)	167	310	276	8	3820	20	.56	-7.1	1	SOP.	86.5
2	PR9a	07:00	69:45	86:50				273	8	790		.56	-7.0		P.M.	85.8
3	PR9a	07:10	69:00	85:31				283	9	2400		.57	-7.1		P.M.	85.7
4	PR9a	07:18	6820	8507				281	9	5090		.57	-7.0		P.M.	85.1
5	PR9a	07:25	67:48	8449	R	167	316	271	9	7120	20	.57	-7.0	1	EOP.	84.7

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

PAGE 1 of 2

YELLOW — QA ARCHIVE PINK — QA ARCHIVE, PROJECT MANAGER

FORM R-5
01/88

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICEMAP-89
Study Area: PRINCE REGENT
Pilot: MARVIN KEYSER
Operator: BRUNO PETERS
Downlink Location: N/A

Date (DD/MM/YY): 04/04/89
Mission/Flt. No.: 31/44
HDDT No.: ~~H0865~~ H1015

TX Incident Power: — dB
TX Reflected Power: — dB
TWT Meter: — Hrs.
RX Atten (dB): 25
Ground Conversion: —
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 3
STC: 0

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	AN AZ / AN EL
1	PRBa	07:41	68:15	85:55	L	347	310	242	9	9060	20	.49	-6.8	1	SOD.	276.1
2	PRBa	07:49	68:50	86:17				239	10	6770		.48	-6.8		P.M	275.1
3	PRBa	08:01	69:35	86:47				238	10	2992		.48	-6.9		P.M.	273.1
4	PRBa	08:20	70:47	87:40	L	347	310	231	11	2850	20	.48	-7.1	1	EOD	273.7

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

PAGE 2 of

YELLOW — QA ARCHIVE PINK — QA ARCHIVE PROJECT MANAGER

FORM R-5
01/88

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R&D-486 | Date (DD/MM/YY): 04/04/89 | TX Incident Power: ____ dB

Project Name: ICE ATLAS '89 | Mission/Flt. No.: 32/45 | TX Reflected Power: ____ dB | RTP Mode: WIDE

Study Area: Arctic Ocean | HDDT No.: ~~H0070~~ H1016 | TWT Meter: ____ Hrs. | SWATH: Width: —

Pilot: J. Montgomery | RX Atten (dB): 25 | Sub: —

Operator: M. FRANKLIN | Ground Conversion: ON | LUT: Intensity: 0

Downlink Location: — | RTP Looks: All | STC: 3

MARK	LINE	GMT TIME	POSITION		LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND SPEED (Kts)	HDDT		SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
			LAT.	LONG.					TRK	FOOTAGE					
1	S3	12:13	75 51	92 05	R	347	290	230	1	0100	20	0.47	7.5	1	START
2		12:31	77 00	93 15				238	1	5730					Position
3		12:40	77 34	93 55				240	1	8440					—"—
4		12:46	78 00	94 28				242	2	7910					—"—
5		12:54	78 30	95 10				250	2	5600					—"—
6		13 02	79 04	96 02				251	2	3000					—"—
7	S3	13 08	79 28	96 40				250	2	1300					END
1	A01	13:27	80 23	100 24	R	037	290	275	2	1000	20	0.57	7.5	1	START
2		13:37	81 00	97 18				279	3	2390					Position
3		13:49	81 40	93 19				274	3	6000					—"—
4		13:55	8200	90 54				277	3	7860					—"—
5		14:06	82 32	86 29				278	4	7350					—"—
6		14:17	83 01	81 05				276	4	4100					—"—
7		14:34	83 40	71 00				274	5	1400					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

PAGE 1 of

YELLOW — QA ARCHIVE PINK — QA ARCHIVE PROJECT MANAGER

CANARC.1C

FORM R5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: RSE 486
Project Name: ICE ATLAS
Study Area: Arctic Ocean
Pilot: J. Montgomery
Operator: M. ERLHWILTH
Downlink Location: /

Date (DD/MM/YY): 04/04/84
Mission/Flt. No.: 32/46
HDDT No.: ~~H0870~~ H1016

TX Incident Power: ____ dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB): 25
Ground Conversion: ∞
RTP Looks: all

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 0
STC: 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT ELEV.	RTP GAIN	COMMENTS
1	A02	14:53	83 30	74 55	R	105	290	270	5	2000	20	0.55	7.5	1	START
2		15:03	83 18	69 00					5	4900					Position
3		15:17	83 02	63 55				269	5	7500					— 1 —
4		15133	82 18	59 45				268	6	4700					END LAND ALERT
				Miss/flt # 33/46											
1	A03	21:50	82 05	56 50	R	300	290	264	6	4390	20	0.55	7.5	1	START
2		22:18	82 50	69 15					7	2300					Position 3 incl. gap
3		2225	82 59	73 31				261	7	4760					— 2 —
4		2230	82 03	76 24				260	7	6030					END
1	A04	22 44	83 10	71 11	R	240	290	255	7	6600	20	0.54	7.5	1	START
2		22 56	82 58	74 44				257	7	8640					Position
3		23 09	82 30	80 55					8	5740					— 3 —
4		2325	81 41	87 40				250	8	850					— 4 —
4		2335	81 22	91 00				253	8	2270					— 10 —

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

FORM R-5
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: 288-486
Project Name: ICE ATLAS 89
Study Area: NARES STRAIT
Pilot: June Montgomery
Operator: N. FRAHM/R. HT
Downlink Location:

Date (DD/MM/YY): 04/04/89
Mission/Flt. No.:
HDDT No.: #0269 Hi015
Reflight N3,4

TX Incident Power: ____ dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB) 25
Ground Conversion on
RTP Looks: all

RTP Mode WIDE
SWATH: Width FULL
Sub: -
LUT: Intensity 0
STC 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	N4A	18'06	82 35	55'30	L	222	280	250	11	3411	20	.52	7.5	1	START Reflight
2		18:17	82 00	62 60				255	11	6770					Position
3		18:35	80'59	70'04				257	12	6100					Position
4	N4a	18:50	80 00	70'36				254	12	1350					END
1	N3a	19:04	80 00	67'54	L	031	240	271	12	1300	20	0.50	7.5	1	START (STARTED ON TAPE 1)
2		19:15	80 40	6515					13	3620					Position
3		19:21	81 01	63 42					13	5330					Position
3		19:29	81 30	61 13					13	7780					P — " —
3		19 45	82 27	—					14	5700					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

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STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE MAP-85
Study Area: Arctic Ocean.
Pilot: J. Montgomery
Operator: M. PRATHER/KTH
Downlink Location:

Date (DD/MM/YY): 04/04/85
Mission/Flt. No.:
HDDT No.: ~~A0870~~ H1016

TX Incident Power: dB
TX Reflected Power: dB
TWT Meter: Hrs.
RX Atten (dB): 25
Ground Conversion: on
RTP Looks: all

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 0
STC: 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
5	~~104~~	23:42	81°00	93 22	R		290	255	9	4330	20	.52	7.5	1	Position
6		23:51	80°30	96 18				254	9	7240					— " —
7		23:54	80°07	98 14				253	10	8670					END
1	54	0:14	80 15	100 12	L	159	290	274	10	8300	20	0.56	7.5	1	START
2		0:20	79 45	99 09					10	6450	23				SWATH Position
3		0:35	78 44	97 12				278	10	2100					Position
4		00:47	77 54	95 52				272	11	1500					— " —
5		1:00	76 50	94 30				276	11	5780					— " —
6		1:07	76°23	93°56				275	11	7700					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

FORM R-5
01/86

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICEMAP 89
Study Area: M'CLURE STRAIT
Pilot: MARVIN KLEYSER
Operator: BRUNO PETERS
Downlink Location: N/A

Date (DD/MM/YY): 05104189
Mission/Flt. No.: ~~35~~ / 47
HDDT No.: ~~H0871~~ H1017

TX Incident Power: -40 dB
TX Reflected Power: - dB
TWT Meter: - Hrs.
RX Atten (dB) 25
Ground Conversion QA
RTP Looks: ALL

RTP Mode MAP
SWATH: Width FULL
Sub: -
LUT: Intensity 8
STC ~~8~~ 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	ANT. AZI
1	MS6	14:10	73:23	112:16	R	301	310	236	1	500	20	.48	-7.4	1	S.O.L.	97.7
2	MS6	14:13	73:32N	112:50W	R			237	1	1480		.48	-7.6		SOD.	98.1
3	MS6	14:21	73:53	114:17				234	1	3990		.47	-7.1		P.M.	100.9
4	MS6	14:28	74:12	115:36				234	1	6200		.47	-6.9		P.M.	101.
5	MS6	14:32	74:22	116:22				235	1	7450		.48	-7.3		P.M. VIDEO drop C.L to 8	100.6
6	MS6	14:42	74:45	118:15				240	2	7890		.49	-6.8		P.M.	100.
7	MS6	14:50	75:05	120:01				238	2	5300		.48	-6.8		P.M.	98.8
8	MS6	14:58	75:21	121:35				244	2	3200		.48	-6.8		P.M. RMS VIDEO = 10	96.4
9	MS6	15:06	75:38	123:20				239	2	850		.48	-7.1		P.M.	97.2
10	MS6	15:14	75:56	125:20	R	301	310	239	3	1860	20	.48	-6.8	1	EOR.	97.7
1	MS5	15:26	75:43	126:37	L	125	310	268	3	3440	20	.55	-7.3	1	S.O.L	263.3
2	MS5	15:29	75:37	125:50				260	3	4380		.54	-6.8		SOD	263.7
3	MS5	15:38	7517	12335				262	3	7050		.54	-7.0		P.M.	263.9
4	MS5	15:47	74:53	121:10	L	125	310	268	4	8150	20	.54	-6.5	1	P.M.	264.3

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

FORM R-5
01/86

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE MAP 89
Study Area: MCLURE STRAIT
Pilot: M. KEYSER
Operator: BERND PETERS
Downlink Location: N/A

Date (DD/MM/YY): 05/04/89
Mission/Flt. No.: ~~35~~ / 49
HDDT No.: ~~H0871~~ H1017

TX Incident Power: -4.0 dB
TX Reflected Power: - dB
TWT Meter: - Hrs.
RX Atten (dB): 25
Ground Conversion: ON
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 30
STC: ~~0~~ 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT. AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	Ant. Az.
5	MS5	15:56	74:32	119:20	L	125	310	270	4	5780	20	.55	-6.9	1	P.M.	264.(
6	MS5	16:04	74:10	117:30				267	4	3340		.54	-6.9		P.M.	261.1
7	MS5	16:13	73:43	115:30				272	4	510		.55	-6.4		P.M.	261.3
8	MS5	16:23	73:14	113:30	L	125	310	278	5	2585	20	.56	-7.1	1	EOD	262.2
1	MS1	16:37	73:13	113:45	R	232	310	226	5	4390	20	.46	-7.1	1	SOD.	91.6
2	MS1	16:45	72:56	115:15				227	5	6900		.46	-6.9		P.M. P.P. VIDEO = 16 KMS	91.(
3	MS1	16:52	72:41	116:25				226	5	8910		.46	-6.9		P.M. (8 KMS)	91.2
4	MS1	16:58	72:26.	117:35				225	6	7160		.46	-6.9		P.M. (8 KMS)	92.(
5	MS1	17:05	72:12.	118:35	R	232	310	230	6	5330	20	.47	-7.1	1	EOD (8 KMS)	92.2

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

FORM R5
01/86

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEMS

Project Number: R88-486
Project Name: ICE MAP-89
Study Area: M'CLURE STRAIT
Pilot: M. KEYSER.
Operator: B PETERS
Downlink Location: N/A

Date (DD/MM/YY): 05/04/89
Mission/Flt. No.: 36/~~37~~
HDDT No.: HC871
H1017

TX Incident Power: – dB
TX Reflected Power: – dB
TWT Meter: on Hrs.
RX Atten (dB): 25
Ground Conversion: –
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: –
LUT: Intensity: 0
STC: 23

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	AA#
1	MS2	20:28	75:21	126:25	R	123	~~3~~10	259	6	2960	20	.53	-7.2	1	S.O.D.	85
2	MS2	20:36	75:03	124:20				264	~~6~~	418		.54	-7.1		P.M	86
3	MS2	20:43	74:46	122:40				260	7	1880		.52	-6.8		P.M.	86
4	MS2	20:49	74:32	121:20	R	123	310	260	7	3640	20	.53	-7.0	1	EOD.	8
1	MS3	21:08	74:13	117:23	L	302	310		7		20			1	S.O. TAPE DRAWN	
2	MS3		74:15	117:35	L		310	233	~~7~~	6480	20	.47	-6.5	1	SOD	27
3	MS3	21:12	74:19	117:55	L	302	310	243	~~7~~	7200	20	.49	-6.5	1	S.O.D.	27
4	MS3	21:22	74:41	119:50			310	229	8	8360		.46	-7.0		P.M	277
5	MS3	21:29	74:58	121:20				238	8	6150		.48	-7.1		P.M.	274
6	MS3	21:37	75:15	123:00				244	8	3820		.49	-6.8		P.M.	274
7	MS3	21:43	75:28	124:25				248	8	1980		.50	-6.8		P.M.	273
8	MS3	21:49	75:39	125:42	L	302	310	249	8	350	20	.50	-7.2	1	EOD.	274

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

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YELLOW – QA ARCHIVE PINK – QA ARCHIVE PROJECT MANAGER

FORM R5
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE-MAP-87
Study Area: M'CLURE STRAIT
Pilot: M. KEYSER.
Operator: B. PETERS
Downlink Location: N/A

Date (DD/MM/YY): 05/04/89
Mission/Flt. No.: 36/50
HDDT No.: ~~H0871~~ H1017

TX Incident Power: - dB
TX Reflected Power: - dB
TWT Meter: - Hrs.
RX Atten (dB): 25
Ground Conversion: ON
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 0
STC: 30

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND. SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS	A.
1	MS4	22:	76:02	125:42	R	128	310		9	1630	20			1	S.O.L.	
2	MS4	22:02	76:01	125:30	R	128	316	262	9	1900	20	.54	-7.5	1	~~[illegible]~~	86
3	MS4	22:04	75:57	125:02	R	128	310	262	9	2400	20	.54	-7.3	1	SOD = 125:10 W 75:56 N SOD	
4	MS4	22:12	75:41	123:10	R	128	310	264	9	4590	20	.54	-7.3	1	P.M.	87
5	MS4	22:22	75:09	120:00	R	128	310	272	9	8460	20	.55	-7.4	1	P.M.	86.
6	MS4	22:33	74:46	118:00	R	128	310	277	10	7230	20	.56	-7.1	1	P.M.	84.
7	MS4	22:44	74:14	115:30	R	128	310	279	10	3890	20	.57	-6.8	1	P.M.	82
8	MS4	22:51	73:52	114:00	R	128	310	269	10	1720	20	.55	-6.8	1	P.M.	82.
9	MS4	22:59	73:31	112:35	R	128	310	270	11	590	20	.55	-6.8	1	EOD	79.

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

[redacted] ARCTIC [redacted]

FORM R5
01/86

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE ATLAS 89
Study Area: HAREN STRAIT
Pilot: J. Montgomery
Operator: M. FRUHWIRTH
Downlink Location:

Date (DD/MM/YY): 06/04/89
Mission/Flt. No.: 37/5
HDDT No.: ~~#02372~~ 41018

TX Incident Power: -6.2 @ PRF 2847Hz dB
TX Reflected Power: — dB
TWT Meter: — Hrs.
RX Atten (dB): 25
Ground Conversion: on
RTP Looks: all

RTP Mode: WIDE
SWATH: Width: —
Sub: —
LUT: Intensity: 0
STC: 3

MARK	LINE	GMT TIME	POSITION LAT	POSITION LONG	LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	HS1	13:50	75 46	105 55	L	335	280	262	11	0100	20	0.54	-7.5	1	START
2		14'11	77'03	108 42				251	11	6690					Position
3		14:18	77'30	109 48				245	11	8800					— " —
4		14:36	78 32	112 44				242	12	4150					— " —
5		1441	78'50	113 44				242	12	2440					END
1	HS2	14:55	78 21	114 31	R	147	280	294	12	1020	20	0.61	-7.5	1	START
2		15:02	77 58	112'53				296	13	1850					Position
3		15:09	77'30	111'36				293	13	3790					— " —
3		15:15	77'03	110'26				294	13	5720					— " —
4		/	76 30	109'07				291	13	7450					— " —
5		15:30	76 00	108 02				284	14	8190					— " —
6		15:35	75 37	107'16				277	14	6570					END
1		1539	75 32	106'14	R	100	280	289	14	6300					SPEC Viscount at
2															LAND at Resolute

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

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YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

ANTARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-436
Project Name: Ice Mass 89
Study Area: Hazen Strait
Pilot: J. Montgomery
Operator: M. Ezenwa
Downlink Location:

Date (DD/MM/YY): 06/04/89
Mission/Flt. No.: 36/52
HDDT No.: ~~H0572~~ H1018

TX Incident Power: ____ dB
TX Reflected Power: ____ dB
TWT Meter: ____ Hrs.
RX Atten (dB) 25
Ground Conversion on
RTP Looks: all

RTP Mode WIDE
SWATH: Width —
Sub: —
LUT: Intensity 0
STC 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG	LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	HS3	19:15	75°31	108°24	L	333	310	223	1	0100	20	0.46	7.5	1	START
2		19:35	76 30	110°40				215	1	6290					Position
3		19:45	77 00	111°55				210	1	9000					Position
4		19:56	77 33	113°31				218	2	5721					— " —
5		20°06	78°03	115 00				200	2	2740					— " —
6		20°14	78°25	116°15				194	2	0270					END
1	HS4	20:24	78°05	116°53	R	144	310	327	3	0100	20	0.67	7.1	1	START
2		20°32	77 30	115°02				320		2970					Position
3		20°34	77 00	113 34				312		4970					— " —
4		20 46	76 30	112°11				303		7020					— " —
5		20 43	76°17	111 39				297		7940					END

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

FORM R5
1/85

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: RB8-486
Project Name: ICE-MAP-89
Study Area: HAZEN STRAIT
Pilot: J Montgomery
Operator: M. FRUHLHIRTH
Downlink Location:

Date (DD/MM/YY): 06/04/89
Mission/Flt. No.: 38/52
HDDT No.: ~~H0972~~ H1018

TX Incident Power: - dB
TX Reflected Power: dB
TWT Meter: - Hrs.
RX Atten (dB): 25
Ground Conversion: on
RTP Looks: dM

RTP Mode: WIDE
SWATH: Width: FULL
Sub: -
LUT: Intensity: 0
STC: 3

MARK	LINE	GMT TIME	POSITION LAT	POSITION LONG	LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV.	RTP GAIN	COMMENTS
1	HS7	21 08	76 40	113 49	R	210	310	297	4	9000	20	0.59	7.1	1	START
2		21 13	76 25	114 29					4	7650					Position
3		21 18	76 00	115 22				306	4	5930					— . —
4		21 24	75 30	116 32				317	4	4000					— . —
5		21:30	75 05	117 21				—	4	2230					END
1	HS6	21 56	75 47	122 20	R	039	310	231	4	20000	20	0.48	7.1	1	START
2		22:01	76 00	120 38				228	4	0150					Position
3		22 11	76 30	118 48				232	5	3050					— . —
4		2217	76 45	117 46				237	5	4900					END
1	HS8	2219	76 45	116 49	R	100	310	242	5	5000	20	0.10	7.1	1	SPEC visual marker
2		22 35	76 27	111 07				291	5	6100					Restart tape
			75 26	100 00					6	1520					END SPEC

LOG CERTIFIED BY: _____ (OPERATOR) DATE: ___/___/___ (DD MM YY)

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YELLOW — QA ARCHIVE PINK — QA ARCHIVE · PROJECT MANAGER

FORM RS
01/86

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R884486 | Date (DD/MM/YY): 07/04/89 | TX Incident Power: - dB

Project Name: ICE-MAP-85 | Mission/Flt. No.: 39/53 | TX Reflected Power: dB | RTP Mode: WILDS

Study Area: LANCASTER SOUND | HDDT No.: ~~H0973~~ H1019 | TWT Meter: Hrs. | SWATH: Width: FULL

Pilot: MARVIN KEYSER. | RX Atten (dB): 25 | Sub: 3

Operator: BRUNO PETERS | Ground Conversion: ON | LUT: Intensity: 90

Downlink Location: N/A | RTP Looks: ALL | STC: 23

MARK	LINE	GMT TIME	POSITION LAT N	POSITION LONG W	LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV	RTP GAIN	COMMENTS	ANT AZMTH
1	L1a	12:51	74:04	88:53	30° R	086°	310	240	1	480	20	.48	-23	1	S.O.L.	97.3°
2	L1a	12:53	74:05	88:30				243	1	980	20	.49	-7.4	1	S.O.D. video off.	97.6°
3	L1a	13:01	74:07	86:30				248	1	3360		.51	-7.0		P.M.	96.8°
4	L1a	13:09	74:07	84:31				247	1	5750		.50	-6.9		P.M.	96.9°
5	L1a	13:16	74:07	82:~~55~~				250	1	8400		.51	-7.0		P.M. replay head adj	94.0°
6	L1a	13:27	74:05	80:50				258	2	7280		.53	-7.0		P.M.	95.1°
7	L1a	13:36	74:01	77:30				261	2	4390		.53	-7.1		P.M.	94.8°
8	L1a	13:46	73:56	75:00	R	086	310	267	2	1520	20	.54	-7.3	1	E.O.F.	94.8
1	L2a	13:55	74:12	74:35	30° L	279	310		3	500	20			1	S.O.L.	
2	L2a	13:57	74:13	75:00	L	279	310	244	3	880	20	.50	-6.5	1	S.O.D.	264.5°
3	L2a	14:05	74:17	77:00				242	3	3300		.49	-6.5		P.M.	264.3°
4	L2a	14:13	74:21	79:00				247	3	5700		.50	-6.8		P.M.	262.9°
5	L2a	14:21	74:23	81:00				247	3	8080		.51	-6.9		P.M.	262.3°
6	L2a	14:29	74:24	83:00	L	279	310	257	4	7860	20	.53	-6.9	1	P.M.	262.7°

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

YELLOW - QA ARCHIVE PINK - QA ARCHIVE PROJECT MANAGER

FORM R5
01/86

CANARCTIC

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: R88-486
Project Name: ICE-MAR-89
Study Area: Lancaster Sound
Pilot: M. KEYSER
Operator: B. PETERS
Downlink Location: M/A

Date (DD/MM/YY): 07/04/89
Mission/Flt. No.: 39/53
HDDT No.: ~~H0873~~ H1019

TX Incident Power: — dB
TX Reflected Power: — dB
TWT Meter: ____ Hrs.
RX Atten (dB): 25
Ground Conversion: on
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 0
STC: 39

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND. SPEED (Kts)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT. ELEV	RTP GAIN	COMMENTS	ANT AZIMUTH
7	L2a	14:38	74:24	85:30	NORTH L	279	310	261	4	5050	20	.53	-7.2	1	P.M Low return due to open water	264.1°
8	L2a	14:44	74:23	87:00				261	4	3390		.53	-6.8		P.M.	264.1
9	L2a	14:49	74:22	88:30	L	279	310	262	4	1700	20	.53	-7.3	1	EOL	263.2°
1	L3a	14:59	73:55	89:09	NORTH L	086	310	253	5	300	20	.54	-7.1	1	SOL	275.3°
2	L3a	15:03	73:56	88:13				253	5	1435		.51	-7.0		SOL = 88:30 WEST	275.6°
3	L3a	15:08	73:57	87:00				255	5	2860		.52	-7.3		P.M.	276.7°
4	L3a	15:17	73:58	84:30				261	5	5750		.53	-7.6		P.M	277.4
5	L3a	15:25	73:58	82:30				258	5	8020		.53	-7.6		P.M.	278.6°
6	L3a	15:34	73:56	80:00				265	6	7320		.54	-7.6		P.M.	277.8°
7	L3a	15:44	73:52	77:30				259	6	4430		.53	-7.3		P.M.	277.9°
8	L3a	15:54	73:46	7500	L			264	6	1550		.54	-7.3		P.M.	277.8°

LOG CERTIFIED BY: _____ (OPERATOR) DATE: __/__/__ (DD MM YY)

FORM R5
01/86

CANARCTIC.

STAR 1 RADAR / DATA TAPE LOG

STAR 1 SYSTEM

Project Number: RS8-486
Project Name: ICEMAP-89
Study Area: Lancaster Sound
Pilot: M. KEMPER.
Operator: B. PETERS
Downlink Location: N/A

Date (DD/MM/YY): 07/04/89
Mission/Flt. No.: 33/53
HDDT No.: ~~H0873~~ H1019

TX Incident Power: ~ dB
TX Reflected Power: — dB
TWT Meter: ✓ Hrs.
RX Atten (dB): 25
Ground Conversion: on
RTP Looks: ALL

RTP Mode: WIDE
SWATH: Width: FULL
Sub: —
LUT: Intensity: 8
STC: on 3

MARK	LINE	GMT TIME	POSITION LAT.	POSITION LONG.	LOOK DIR. (L/R)	AIRCRAFT TRACK (°T)	ALT AGL (Feet) X 100	GRND SPEED (Kts.)	HDDT TRK	HDDT FOOTAGE	SLANT RANGE DELAY (km)	PAPER SPEED	ANT ELEV.	RTP GAIN	COMMENTS	ANT AZMTH ∠
1	L4a	16:00	74:01	74:25	North R	279	310	245	7	250	20	.50	-7.6	1	S.O.L.	82.4°
2	L4a	16:04	74:03	75:00	R	279	310	252	7	950		.51	-7.6		S.O.,	82.9°
3	L4a	16:13	74:08	77:25				259	7	3750		.53	-7.6		P.M.	83.9°
4	L4a	16:21	74:11	79:30				265	7	6100		.54	-7.6		P.M.	84.4°
5	L4a	16:30	74:14	82:00				261	7	8890		.53	-7.5		P.M.	84.8°
6	L4a	16:40	74:14	84:30				260	8	6450		.53	-7.4		P.M.	84.2°
7	L4a	16:47	74:14	86:30				260	8	4180		.53	-7.6		P.M.	84.8°
8	L4a	16:55	74:12	88:30	R	279	310	257	8	1860	20	.53	-7.8	1	EOD	86.1°

LOG CERTIFIED BY: _____ (OPERATOR) DATE: / / (DD MM YY)

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